

Annual Radiological Environmental Operating Report

**Watts Bar
Nuclear Plant
2005**



**ANNUAL ENVIRONMENTAL RADIOLOGICAL OPERATING REPORT
WATTS BAR NUCLEAR PLANT
2005**

TENNESSEE VALLEY AUTHORITY

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EXECUTIVE SUMMARY

This report describes the radiological environmental monitoring program conducted by TVA in the vicinity of the Watts Bar Nuclear Plant (WBN) in 2005. The program includes the collection of samples from the environment and the determination of the concentrations of radioactive materials in the samples. Samples are taken from stations in the general area of the plant and from areas that should not be influenced by plant operations. Material sampled includes air, atmospheric moisture, water, milk, food crops, soil, fish, sediment, and direct radiation levels. Results from stations near the plant are compared with concentrations from control locations and with preoperational measurements to determine potential impacts of plant operations.

The majority of environmental radioactivity measured by the program was due to naturally occurring radioactive materials or radionuclides commonly found in the environment as a result of atmospheric fallout and the operation of other nuclear facilities in the area. Low levels of Cs-137 were measured in soil, fish, and shoreline sediment samples and Sr-90 was identified in one milk sample. The Cs-137 and Sr-90 concentrations were consistent with the preoperational monitoring program results and with levels normally found in the environment as the result of past nuclear weapons testing. Trace levels of tritium were detected in a limited number of atmospheric moisture samples.

Tritium was detected in onsite ground water monitoring wells. Investigations were conducted to identify the source of the tritium and implement corrective actions. In addition, Co-60, Cs-137, and Sb-125 were identified in sediment collected from the onsite Yard Holding Pond. The level of activity measured in these on site locations would not present a risk of exposure to the general public.

INTRODUCTION

This report describes and summarizes the results of radioactivity measurements made in the vicinity of WBN and laboratory analyses of samples collected in the area. The measurements are made to comply with the requirements of 10 CFR 50, Appendix A, Criterion 64 and 10 CFR 50, Appendix I, Section IV.B.2, IV.B.3 and IV.C and to determine potential effects on public health and safety. This report satisfies the annual reporting requirements of WBN Technical Specification 5.9.2 and Offsite Dose Calculation Manual (ODCM) Administrative Control 5.1. In addition to reporting the data prescribed by specific requirements, other information is included to help correlate the significance of results measured by this monitoring program to the levels of environmental radiation resulting from naturally occurring radioactive materials.

Naturally Occurring and Background Radioactivity

Most materials in our world today contain trace amounts of naturally occurring radioactivity. Potassium-40 (K-40), with a half-life of 1.3 billion years, is one of the major types of radioactive materials found naturally in our environment. Approximately 0.01 percent of all potassium is radioactive potassium-40. Other examples of naturally occurring radioactive materials are beryllium (Be)-7, bismuth (Bi)-212 and 214, lead (Pb)-212 and 214, thallium (Tl)-208, actinium (Ac)-228, uranium (U)-238 and 235, thorium (Th)-234, radium (Ra)-226, radon (Ra)-222, carbon (C) -14, and hydrogen (H)-3 (generally called tritium). These naturally occurring radioactive materials are in the soil, our food, our drinking water, and our bodies. The radiation from these materials makes up a part of the low-level natural background radiation. The remainder of the natural background radiation comes from outer space.

It is possible to get an idea of the relative hazard of different types of radiation sources by evaluating the amount of radiation the U.S. population receives from each general type of radiation source. The information below is primarily adapted from References 2 and 3.

U.S. GENERAL POPULATION AVERAGE DOSE EQUIVALENT ESTIMATES

Source	Millirem/Year Per Person
Natural background dose equivalent	
Cosmic	27
Cosmogenic	1
Terrestrial	28
In the body	39
Radon	200
Total	295
Release of radioactive material in natural gas, mining, ore processing, etc.	5
Medical (effective dose equivalent)	53
Nuclear weapons fallout	less than 1
Nuclear energy	0.28
Consumer products	0.03
Total	355 (approximately)

As can be seen from the data presented above, natural background radiation dose equivalent to the U.S. population normally exceeds that from nuclear plants by several hundred times. This indicates that nuclear plant operations normally result in a population radiation dose equivalent which is insignificant compared to that which results from natural background radiation. It should be noted that the use of radiation and radioactive materials for medical uses has resulted in a similar effective dose equivalent to the U.S. population as that caused by natural background cosmic and terrestrial radiation.

Electric Power Production

Nuclear power plants are similar in many respects to conventional coal burning (or other fossil fuel) electrical generating plants. The basic process behind electrical power production in both types of plants is that fuel is used to heat water to produce steam which provides the force to turn

turbines and generators. In a nuclear power plant, the fuel is uranium and heat is produced in the reactor through the fission of the uranium. Nuclear plants include many complex systems to control the nuclear fission process and to safeguard against the possibility of reactor malfunction. The nuclear reactions produce radionuclides commonly referred to as fission and activation products. Very small amounts of these fission and activation products are released into the plant systems. This radioactive material can be transported throughout plant systems and some of it released to the environment.

Paths through which radioactivity from a nuclear power plant is routinely released are monitored. Liquid and gaseous effluent monitors record the radiation levels for each release. These monitors also provide alarm mechanisms to prompt termination of any release above limits.

Releases are monitored at the onsite points of release and through the radiological environmental monitoring program which measures the environmental radiation in areas around the plant. In this way, the release of radioactive materials from the plant is tightly controlled, and verification is provided that the public is not exposed to significant levels of radiation or radioactive materials as the result of plant operations.

The WBN ODCM, which describes the program required by the plant Technical Specifications, prescribes limits for the release of radioactive effluents, as well as limits for doses to the general public from the release of these effluents.

The dose to a member of the general public from radioactive materials released to unrestricted areas, as given in NRC guidelines and the ODCM, is limited as follows:

Liquid Effluents

Total body
Any organ

≤ 3 mrem/year
 ≤ 10 mrem/year

Gaseous Effluents

Noble gases:

Gamma radiation	≤ 10 mrad/year
Beta radiation	≤ 20 mrad/year

Particulates:

Any organ	≤ 15 mrem/year
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The EPA limits for the total dose to the public in the vicinity of a nuclear power plant, established in the Environmental Dose Standard of 40 CFR 190, are as follows:

Total body	≤ 25 mrem/year
Thyroid	≤ 75 mrem/year
Any other organ	≤ 25 mrem/year

Appendix B to 10 CFR 20 presents annual average limits for the concentrations of radioactive materials released in gaseous and liquid effluents at the boundary of the unrestricted areas. Table 1 of this report presents the annual average concentration limits for the principal radionuclides associated with nuclear power plant effluents. The table also presents (1) the concentrations of radioactive materials in the environment which would require a special report to the NRC and (2) the detection limits for measured radionuclides. It should be noted that the levels of radioactive materials measured in the environment are typically below or only slightly above the lower limit of detection.

SITE/PLANT DESCRIPTION

The WBN site is located in Rhea county, Tennessee, on the west bank of the Tennessee River at Tennessee River Mile (TRM) 528. Figure 1 shows the site in relation to other TVA projects.

The WBN site, containing approximately 1770 acres on Chickamauga Lake, is approximately 2 miles south of the Watts Bar Dam and approximately 31 miles north-northeast of TVA's Sequoyah Nuclear Plant (SQN) site. Also located within the reservation are the Watts Bar Dam and Hydro-Electric Plant, the Watts Bar Steam Plant (not in operation), the TVA Central Maintenance Facility, and the Watts Bar Resort Area.

Approximately 16,000 people live within 10 miles of the WBN site. More than 80 percent of these live between 5 and 10 miles from the site. Two small towns, Spring City and Decatur, are located in this area. Spring City, with a population of approximately 2,200, is northwest and north-northwest from the site, while Decatur, with about 1,400 people, is south and south-southwest from the plant. The remainder of the area within 10 miles of the site is sparsely populated, consisting primarily of small farms and individual residences.

The area between 10 and 50 miles from the site includes portions of the cities of Chattanooga and Knoxville. The largest urban concentration in this area is the city of Chattanooga, located to the southwest and south-southwest. The city of Chattanooga has a population of about 155,000, with approximately 80 percent located between 40 and 50 miles from the site and the remainder located beyond 50 miles. The city of Knoxville is located to the east-northeast, with not more than 10 percent of its 177,000 plus people living within 50 miles of the site. Three smaller urban areas of greater than 20,000 people are located between 30 and 40 miles from the site. Oak Ridge is approximately 40 miles to the northeast, the twin cities of Alcoa and Maryville are located 45 to 50 miles to the east-northeast, and Cleveland is located about 30 miles to the south.

Chickamauga Reservoir is one of a series of highly controlled multiple-use reservoirs whose primary uses are flood control, navigation, and the generation of electric power. Secondary

uses include industrial and public water supply and waste disposal, commercial fishing, and recreation. Public access areas, boat docks, and residential subdivisions have been developed along the reservoir shoreline.

WBN consists of two pressurized water reactors. WBN Unit 1 received a low power operating license (NPF-20) on November 9, 1995, and achieved initial criticality in January 1996. The full power operating license (NPF-90) was received on February 7, 1996. Commercial operation was achieved May 25, 1996. WBN Unit 2 was deferred October 24, 2000, in accordance with the guidance in Generic Letter 87-15, "Policy Statement on Deferred Plants."

RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

Most of the radiation and radioactivity generated in a nuclear power reactor is contained within the reactor itself or one of the other plant systems. Plant effluent radiation monitors are designed to monitor radionuclides released to the environment. Environmental monitoring is a final verification that the systems are performing as planned. The monitoring program is designed to monitor the pathways between the plant and the people in the immediate vicinity of the plant. Sample types are chosen so that the potential for detection of radioactivity in the environment will be maximized. The Radiological Environmental Monitoring Program (REMP) for WBN is outlined in Appendix A.

There are two primary pathways by which radioactivity can move through the environment to humans: air and water (see Figure 2). The air pathway can be separated into two components: the direct (airborne) pathway and the indirect (ground or terrestrial) pathway. The direct airborne pathway consists of direct radiation and inhalation by humans. In the terrestrial pathway, radioactive materials may be deposited on the ground or on plants and subsequently ingested by animals and/or humans. Human exposure through the liquid pathway may result from drinking water, eating fish, or by direct exposure at the shoreline. The types of samples collected in this program are designed to monitor these pathways.

A number of factors were considered in determining the locations for collecting environmental samples. The locations for the atmospheric monitoring stations were determined from a critical pathway analysis based on weather patterns, dose projections, population distribution, and land use. Terrestrial sampling stations were selected after reviewing such things as the locations of dairy animals and gardens in conjunction with the air pathway analysis. Liquid pathway stations were selected based on dose projections, water use information, and availability of media such as fish and sediment. Table A-2 (Appendix A, Table 2: This notation system is used for all tables and figures given in the appendices.) lists the sampling stations and the types of samples

collected from each. There were no modifications made in the WBN REMP in 2005, Appendix B is included in this report as a place keeper.

Deviations occur in the monitoring program due to equipment problems with automatic sampling systems, sample unavailability or when analyses cannot be completed. Deviations to the sampling and analysis schedule during 2005 are described in Appendix C.

To determine the amount of radioactivity in the environment prior to the operation of WBN, a preoperational radiological environmental monitoring program was initiated in December 1976 and operated through December 31, 1995. Measurements of the same types of radioactive materials that are measured currently were assessed during the preoperational phase to establish normal background levels for various radionuclides in the environment. During the 1950s, 60s, and 70s, atmospheric nuclear weapons testing released radioactive material to the environment causing fluctuations in background radiation levels. Knowledge of preexisting radionuclide patterns in the environment permits a determination, through comparison and trending analyses, of the actual environmental impact of WBN operation.

The determination of environmental impact during the operating phase also considers the presence of control stations that have been established in the environment. Results of environmental samples taken at control stations (far from the plant) are compared with those from indicator stations (near the plant) to aid in the determination of the impacts from WBN operation.

The sample analysis is performed by TVA's Environmental Radiological Monitoring and Instrumentation (ERM&I) group located at the Western Area Radiological Laboratory (WARL) in Muscle Shoals, Alabama. Analyses are conducted in accordance with written and approved procedures and are based on accepted methods. A summary of the analysis techniques

and methodology is presented in Appendix D. Data tables summarizing the sample analysis results are presented in Appendix H. The Data Supplement to this report contains the results of all measurements made as a part of this program.

The radiation detection devices and analysis methods used to determine the radionuclide content of samples collected in the environment are very sensitive to small amounts of radioactivity. The sensitivity of the measurement process is defined in terms of the lower limit of detection (LLD). A description of the nominal LLDs for the ERM&I laboratory is presented in Appendix E.

The ERM&I laboratory operates under a comprehensive quality assurance/quality control program to monitor laboratory performance throughout the year. The program is intended to detect any problems in the measurement process as soon as possible so they can be corrected. This program includes equipment checks to ensure that the radiation detection instruments are working properly and the analysis of quality control samples which are included alongside routine environmental samples. To provide for interlaboratory comparison program, the laboratory participates in an environmental cross-check program administered by Analytics, Incorporated. A complete description of the program is presented in Appendix F.

DIRECT RADIATION MONITORING

Direct radiation levels are measured at a number of stations around the plant site. These measurements include contributions from cosmic radiation, radioactivity in the ground, fallout from atmospheric nuclear weapons tests conducted in the past, and any radioactivity that may be present as a result of plant operations. Because of the relatively large variations in background radiation as compared to the small levels from the plant, contributions from the plant may be difficult to distinguish.

Direct radiation levels measured in the area around the WBN site in 2005 were consistent with levels from previous years and with levels measured at other locations in the region.

Measurement Techniques

Direct radiation measurements are made with thermoluminescent dosimeters (TLDs). The Panasonic Model UD-814 dosimeter is used for the measurement of direct radiation levels in the environment. This dosimeter contains four elements consisting of one lithium borate and three calcium sulfate phosphors. The calcium sulfate phosphors are shielded by approximately 1000 mg/cm² plastic and lead to compensate for the over-response of the detector to low energy radiation.

The TLDs are placed approximately one meter above the ground, with two or more TLDs at each station. Sixteen monitoring points are located around the plant near the site boundary; one location in each of the 16 compass sectors. An additional 16 monitoring points are located approximately 5 miles from the plant in each of the 16 sectors. Dosimeters are also placed at the perimeter and remote air monitoring sites and at additional locations out to approximately 32 miles from the site. The environmental TLD locations are listed in Table A-3. The TLDs are exchanged every 3 months and the accumulated exposure is read with a Panasonic Model UD-710A automatic reader interfaced with a computer system for data analysis.

Since the calcium sulfate phosphor is much more sensitive than the lithium borate, the measured exposure is taken as the median of the results obtained from the calcium sulfate phosphors. The values are corrected for gamma response, system variations, and transit exposure, with individual gamma response calibrations for each element. The system meets or exceeds the performance specifications outlined in Regulatory Guide 4.13 for environmental applications of TLDs.

Results

Results are normalized to a standard quarter (91.25 days or 2190 hours). The monitoring locations are grouped according to the distance from the plant. The first group consists of locations within 1 mile of the plant. The second group lies between 1 and 2 miles, the third group between 2 and 4 miles, the fourth group between 4 and 6 miles, and the fifth group is made up of monitoring points more than 6 miles from the plant. Past data have shown that the average results from groups greater than 2 miles from the plant are essentially the same. Therefore, for purposes of this report, locations 2 miles or less from the plant are identified as "onsite" and all others are considered "offsite."

The quarterly gamma radiation levels determined from the TLDs deployed around WBN in 2005 are summarized in Table H-1. The results from all measurements at individual stations are presented in Table H-2. The exposures are measured in milliroentgens (mR). For purposes of this report, one milliroentgen, one millirem (mrem) and one millirad (mrad) are assumed to be numerically equivalent. The rounded average annual exposures are shown below. For comparison purposes, the average direct radiation measurements made in the preoperational monitoring program for the period of 1990 to 1995 are also shown.

	Annual Average Direct Radiation Levels WBN <u>mR/Year</u>	
	<u>2005</u>	<u>Preoperational Average</u>
Onsite Stations	66	65
Offsite Stations	61	57

The data in Table H-1 indicate that the average quarterly radiation levels at the WBN onsite stations are approximately 1.3 mR/quarter higher than levels at the offsite stations. This difference is consistent with levels measured for the preoperation and construction phases of TVA nuclear power plant sites where the average levels onsite were generally 2-6 mR/quarter higher than levels offsite. The causes of these differences have not been isolated; however, it is postulated that the differences are probably attributable to combinations of influences such as natural variations in environmental radiation levels, earth-moving activities onsite, and the mass of concrete employed in the construction of the plant. Other undetermined influences may also play a part.

Figure H-1 compares plots of the data from the onsite or site boundary stations with those from the offsite stations over the period from 1990 through 2005. The results reported in 2005 are consistent with direct radiation levels reported in previous years. There is no indication that WBN activities increased the background radiation levels normally observed in the areas surrounding the plant.

ATMOSPHERIC MONITORING

The atmospheric monitoring network is divided into three groups identified as local, perimeter, and remote. Four local air monitoring stations are located on or adjacent to the plant site in the general directions of greatest wind frequency. Four perimeter air monitoring stations are located between 6 to 11 miles from the plant, and two remote air monitors are located out to 15 miles. The monitoring program and the locations of monitoring stations are identified in the tables and figures of Appendix A. The remote stations are used as control or baseline stations.

Results from the analysis of samples in the atmospheric pathway are presented in Tables H-3, H-4, and H-5. Radioactivity levels identified in this reporting period are consistent with background and preoperational program data. There is no indication of an increase in atmospheric radioactivity as a result of WBN.

Sample Collection and Analysis

Air particulates are collected by continuously sampling air at a flow rate of approximately 2 cubic feet per minute (cfm) through a 2-inch glass fiber filter. The sampling system consists of a pump, a magnehelic gauge for measuring the drop in pressure across the system, and a dry gas meter to measure the total volume of air sampled. This system is housed in a building approximately 2 feet by 3 feet by 4 feet. The filter is contained in a sampling head mounted on the outside of the monitor building. The filter is replaced weekly. Each filter is analyzed for gross beta activity about 3 days after collection to allow time for the radon daughters to decay. Every 4 weeks composites of the filters from each location are analyzed by gamma spectroscopy.

Gaseous radioiodine is sampled using a commercially available cartridge containing TEDA-impregnated charcoal. This system is designed to collect iodine in both the elemental form and as organic compounds. The cartridge is located in the same sampling head as the air particulate

filter and is downstream of the particulate filter. The cartridge is changed at the same time as the particulate filter and samples the same volume of air. Each cartridge is analyzed for I-131 by gamma spectroscopy analysis.

Atmospheric moisture sampling is conducted by pulling air at a constant flow rate through a column loaded with approximately 400 grams of silica gel. Every two weeks, the column is exchanged on the sampler. The atmospheric moisture is removed from silica gel by heating and analyzed for tritium.

Rainwater is collected by use of a collection tray attached to the monitor building. The collection tray is protected from debris by a screen cover. As water drains from the tray, it is collected in one of two 5-gallon containers inside the monitor building. A 1-gallon sample is removed from the container every 4 weeks. Any excess water is discarded. Rainwater samples are held to be analyzed only if air particulate samples indicate the presence of elevated levels or if fallout is expected. For example, rainwater samples were analyzed during the period of fallout following the accident at Chernobyl in 1986. Since no plant-related air activity was detected in 2004, no rainwater samples from WBN were analyzed in this reporting period.

Results

The results from the analysis of air particulate samples are summarized in Table H-3. Gross beta activity in 2005 was consistent with levels reported in previous years. The average gross beta activity measured for air particulate samples was 0.021 pCi/m^3 . The annual averages of the gross beta activity in air particulate filters at these stations for the period 1977-2005 are presented in Figure H-2. Increased levels due to fallout from atmospheric nuclear weapons testing are evident in the years prior to 1981 and a small increase from the Chernobyl accident can be seen in 1986. These patterns are consistent with data from monitoring programs conducted by TVA at other nuclear power plant construction sites. Comparison with the same data for the preoperational period of 1990-1995 indicates that the annual average gross beta activity for air particulates as measured in the 2005 monitoring program was consistent with the preoperational data.

Only natural radioactive materials were identified by the monthly gamma spectral analysis of the air particulate samples. As shown in Table H-4, I-131 was not detected in any charcoal cartridge samples collected in 2005.

The results for atmospheric moisture sampling are reported in Table H-5. Tritium was measured in a limited number of atmospheric moisture samples at levels slightly above the nominal LLD value at 3.0 pCi/cubic meter.

TERRESTRIAL MONITORING

Terrestrial monitoring is accomplished by collecting samples of environmental media that may transport radioactive material from the atmosphere to humans. For example, radioactive material may be deposited on a vegetable garden and be ingested along with the vegetables or it may be deposited on pasture grass where dairy cattle are grazing. When the cow ingests the radioactive material, some of it may be transferred to the milk and consumed by humans who drink the milk. Therefore, samples of milk, soil, and food crops are collected and analyzed to determine potential impacts from exposure through this pathway. The results from the analysis of these samples are shown in Tables H-6 through H-12.

A land use survey is conducted annually between April and October to identify the location of the nearest milk animal, the nearest residence, and the nearest garden of greater than 500 square feet producing fresh leafy vegetables in each of 16 meteorological sectors within a distance of 5 miles from the plant. This land use survey satisfies the requirements 10 CFR 50, Appendix I, Section IV.B.3. From data produced by the land use survey, radiation doses are projected for individuals living near the plant. Doses from air submersion are calculated for the nearest residence in each sector, while doses from drinking milk or eating foods produced near the plant are calculated for the areas with milk-producing animals and gardens, respectively. These dose projections are hypothetical extremes and do not represent actual doses to the general public. The results of the 2005 land use survey are presented in Appendix G.

Sample Collection and Analysis

Milk samples are collected every 2 weeks from three indicator dairies and from at least one control dairy. Milk samples are placed on ice for transport to the radioanalytical laboratory. A specific analysis for I-131 and a gamma spectral analysis are performed on each sample and once per quarter samples are analyzed for Sr-89 and Sr-90.

The monitoring program includes a provision for sampling of vegetation from locations where milk is being produced and when milk sampling cannot be conducted. There were no periods during 2005 when vegetation sampling was necessary.

Soil samples are collected annually from the air monitoring locations. The samples are collected with either a "cookie cutter" or an auger type sampler. After drying and grinding, the sample is analyzed by gamma spectroscopy. When the gamma analysis is complete, the sample is ashed and analyzed for Sr-89 and Sr-90.

Samples representative of food crops raised in the area near the plant are obtained from individual gardens, corner markets, or cooperatives. Types of foods may vary from year to year as a result of changes in the local vegetable gardens. In 2005, samples of apples, cabbage, corn, green beans, and tomatoes, were collected from local vegetable gardens and/or farms. Samples of the same food products grown in areas that would not be effected by the plant were collected as control samples. The edible portion of each sample is analyzed by gamma spectroscopy.

Results

The results from the analysis of milk samples are presented in Table H-6. All I-131 values were below the established nominal LLD of 0.4 pCi/liter. A trace level of Sr-90 was detected in one milk sample. The concentration was consistent with levels of Sr-90 present in the environment as the result of past nuclear weapons testing. The results for the quarterly Sr-89, Sr-90 analysis of all other milk samples were below the established LLD's for these analyses. The gamma isotopic analysis detected only naturally occurring radionuclides.

Consistent with most of the environment, Cs-137 was detected in all of the soil samples collected in 2005. The maximum concentration of Cs-137 was 0.63 pCi/g. The concentrations were consistent with levels previously reported from fallout. All other radionuclides reported were naturally occurring isotopes. The results of the analysis of soil samples are summarized in Table H-7.

A plot of the annual average Cs-137 concentrations in soil is presented in Figure H-3.

Concentrations of Cs-137 in soil are steadily decreasing as a result of the cessation of weapons testing in the atmosphere, the 30 year half-life of Cs-137, and transport through the environment.

The radionuclides measured in food samples were naturally occurring. The results are reported in Tables H-8 through H-12.

LIQUID PATHWAY MONITORING

Potential exposures from the liquid pathway can occur from drinking water, ingestion of fish, or from direct radiation exposure from radioactive materials deposited in the shoreline sediment. The aquatic monitoring program includes the collection of samples of river (surface) water, groundwater, drinking water supplies, fish, and shoreline sediment. Indicator samples were collected downstream of the plant and control samples collected within the reservoir upstream of the plant or in the next upstream reservoir (Watts Bar Lake).

Results from the analysis of the liquid pathway samples are presented in Table H-13 through H-19. Radioactivity levels in surface and public water, fish, and shoreline sediment were consistent with background and/or fallout levels previously reported. Low levels of Cs-137 were measured in samples of shoreline sediment and fish. Tritium slightly above the nominal LLD value was detected in one sample from the upstream surface water sampling location. Results for the sediment sampling conducted in the onsite Yard Holding Pond and ground water monitoring in onsite wells are discussed later in this section.

Sample Collection and Analysis

Samples of surface water are collected from the Tennessee River using automatic sampling systems from two downstream stations and one upstream station. A timer turns on the system at least once every 2 hours. The line is flushed and a sample collected into a composite container. A 1-gallon sample is removed from the container at 4-week intervals and the remaining water is discarded. Each sample is analyzed for gamma-emitting radionuclides, gross beta activity, and tritium.

Samples are also collected by an automatic sampling system at the first two downstream drinking water intakes. These samples are collected in the same manner as the surface water samples.

These monthly samples are analyzed for gamma-emitting radionuclides, gross beta activity, and tritium. The samples collected by the automatic sampling device are taken directly from the river at the intake structure. Since the sample at this point is raw water, the upstream surface water sample is used as a control sample for drinking water.

Groundwater is sampled from one onsite well down gradient from the plant, one onsite well up gradient from the plant, and four additional onsite ground water monitoring wells located along underground discharge lines. The onsite wells are sampled with a continuous sampling system. A composite sample is collected from the onsite wells every four weeks and analyzed for gamma-emitting radionuclides, gross beta activity, and tritium content. In addition, a grab sample is collected every four weeks from a private well in an area unaffected by WBN. The grab sample is also analyzed for gross beta activity, gamma-emitting radionuclides, and for tritium.

Samples of commercial and game fish species are collected semiannually from each of two reservoirs: the reservoir on which the plant is located (Chickamauga Reservoir) and the upstream reservoir (Watts Bar Reservoir). The samples are collected using a combination of netting techniques and electrofishing. The ODCM specifies analysis of the edible portion of the fish. To comply with this requirement, filleted portions are taken from several fish of each species. The samples are analyzed by gamma spectroscopy.

Samples of shoreline sediment are collected from recreation areas in the vicinity of the plant. The samples are dried, ground, and analyzed by gamma spectroscopy.

Samples of sediment are also collected from the onsite Yard Holding Pond. A total of five samples were collected in 2005. The samples are dried, ground, and analyzed by gamma spectroscopy.

Results

Gross beta activity was detectable above the nominal LLD in most of the surface water samples. The gross beta concentrations averaged 3.4 pCi/liter in downstream samples and 2.5 pCi/liter in upstream samples. These levels were consistent with results found during the preoperational monitoring program. Tritium at a concentration of 419 pCi/L was detected in one sample collected from the upstream surface water collection location. This upstream location serves as the control location for both surface water and public water monitoring. A summary table of the results is shown in Table H-13.

No fission or activation products were identified in drinking water samples from either of two downstream monitoring locations. Average gross beta activity at downstream stations was 2.5 pCi/liter and the average for upstream stations was also 2.5 pCi/liter. The results are shown in Table H-14. Trend plots of the gross beta activity in surface water and drinking water samples from 1977 through 2005 are presented in Figure H-4.

The gamma isotopic analysis of ground water samples identified only naturally occurring radionuclides. Gross beta concentrations in samples from the onsite indicator locations averaged 4.5 pCi/liter. The average gross beta activity for samples from the control locations was 2.7 pCi/liter. Tritium was detected in samples from the onsite monitoring wells. The tritium in onsite ground water was the result of previously identified leaks from plant systems. Repairs were made to resolve the leaks but the plume of contaminated ground water continues to move slowly across the site toward the river. The tritium levels in two wells exceeded the limits and required special reporting per WBN ODCM Section 1/2.3.1. These maximum levels occurred in the first half of the year with tritium levels trending down during the last six months of the year. There was no tritium detected in the onsite up gradient well or the offsite ground water monitoring location. The results are presented in Table H-15.

Measurable levels of Cs-137 were identified in a total of seven fish samples. The maximum Cs-137 concentration was 0.10 pCi/g measured in commercial fish collected at the upstream control location. Other radioisotopes found in fish were naturally occurring, with the most

notable being K-40. The results are summarized in Tables H-16 and H-17. Trend plots of the annual average Cs-137 concentrations measured in fish samples are presented in Figure H-5. The Cs-137 activities are consistent with preoperational results produced by fallout or effluents from other nuclear facilities.

Low levels of Cs-137 consistent with the concentrations present in the environment as the result of past nuclear weapons testing or other nuclear operations in the area were measured in samples of shoreline sediment. The results for the analysis of shoreline sediment is presented in Table H-18. Trend plots of the average concentration of Cs-137 in shoreline sediment are presented in Figure H-6.

Consistent with previous monitoring conducted for the onsite ponds, Cs-137 was detected in the sediment samples. The average of the Cs-137 levels measured in sediment from the onsite ponds was 0.10 pCi/gm. In addition, Co-58, Co-60, and Sb-125 were also detected in some of the samples collected from the Yard Holding Pond. The results for the analysis of pond sediment samples are provided in Table H-19. Since these radionuclides were present in relatively low concentrations and confined to the Yard Holding Pond located in the owner controlled area not open to the general public, the presence of these radionuclides would not represent any increased risk of exposure to the general public.

ASSESSMENT AND EVALUATION

Potential doses to the public are estimated from measured effluents using computer models. These models were developed by TVA and are based on guidance provided by the NRC in Regulatory Guide 1.109 for determining the potential dose to individuals and populations living in the vicinity of the plant. The results of the effluent dose calculations are reported in the Annual Radiological Effluent Release Report. The doses calculated are a representation of the dose to a "maximum exposed individual." Some of the factors used in these calculations (such as ingestion rates) are maximum expected values which will tend to overestimate the dose to the "hypothetical" person. The calculated maximum dose due to plant effluents are small fractions of the applicable regulatory limits. In reality, the expected dose to actual individuals is significantly lower.

Based on the very low concentrations of radionuclides actually present in the plant effluents, radioactivity levels measured in the environment as result of plant operations are expected to be negligible. The results for the radiological environmental monitoring conducted for the WBN 2005 operations confirm this expectation.

Results

As stated earlier in this report, the estimated increase in radiation dose equivalent to the general public resulting from the operation of WBN is insignificant when compared to the dose from natural background radiation. The results from each environmental sample are compared with the concentrations from the corresponding control stations and appropriate preoperational and background data to determine influences from the plant. During this report period, Cs-137 was detected in shoreline sediment, soil, and fish collected for the WBN program. Trace levels of tritium were measured in a few atmospheric moisture samples and Sr-90 was detected in one milk sample. The concentrations measured were consistent with levels measured during the preoperational monitoring program.

The levels of tritium detected in the onsite ground water monitoring wells and the radionuclides measured in samples of sediment from the Yard Holding Pond do not represent an increase risk of exposure to the public. These radionuclides were limited to the owner controlled area and would not present an exposure pathway for the general public.

Conclusions

It is concluded from the above analysis of environmental samples and from the trend plots presented in Appendix H, that exposure to members of the general public which may have been attributable to WBN is negligible. The radioactivity reported herein is primarily the result of fallout or natural background. Any activity which may be present in the environment as a result of plant operations does not represent a significant contribution to the exposure of Members of the Public.

REFERENCES

1. Merrill Eisenbud, Environmental Radioactivity, Academic Press, Inc., New York, NY, 1987.
2. National Council on Radiation Protection and Measurements, Report No. 93, "Ionizing Radiation Exposure of the Population of the United States," September 1987.
3. United States Nuclear Regulatory Commission, Regulatory Guide 8.29, "Instruction Concerning Risks from Occupational Radiation Exposure," July 1981.

Table 1

**COMPARISON OF
PROGRAM LOWER LIMITS OF DETECTION WITH THE REGULATORY LIMITS FOR
MAXIMUM ANNUAL AVERAGE EFFLUENT CONCENTRATIONS
RELEASED TO UNRESTRICTED AREAS
AND REPORTING LEVELS**

	<u>Concentrations in Water, pCi/Liter</u>			<u>Concentrations in Air, pCi/Cubic Meter</u>		
	<u>Effluent Concentration¹</u>	<u>Reporting Level²</u>	<u>Lower limit of Detection³</u>	<u>Effluent Concentration¹</u>	<u>Reporting Level²</u>	<u>Lower limit of Detection³</u>
H-3	1,000,000	20,000	300	100,000		3.00
Cr-51	500,000		45	30,000		0.02
Mn-54	30,000	1,000	5	1,000		0.005
Co-58	20,000	1,000	5	1,000		0.005
Co-60	3,000	300	5	50		0.005
Zn-65	5,000	300	10	400		0.005
Sr-89	8,000		5	1,000		0.0011
Sr-90	500		2	6		0.0004
Nb-95	30,000	400	5	2,000		0.005
Zr-95	20,000	400	10	400		0.005
Ru-103	30,000		5	900		0.005
Ru-106	3,000		40	20		0.02
I-131	1,000	2	0.4	200	0.9	0.03
Cs-134	900	30	5	200	10	0.005
Cs-137	1,000	50	5	200	20	0.005
Ce-144	3,000		30	40		0.01
Ba-140	8,000	200	25	2,000		0.015
La-140	9,000	200	10	2,000		0.01

Note: 1 pCi = 3.7×10^{-2} Bq.

Note: For those reporting levels that are blank, no value is given in the reference.

1 Source: Table 2 of Appendix B to 10 CFR 20.1001-20.2401

2 Source: WBN Offsite Dose Calculation Manual, Table 2.3-2

3 Source: Table E-1 of this report.

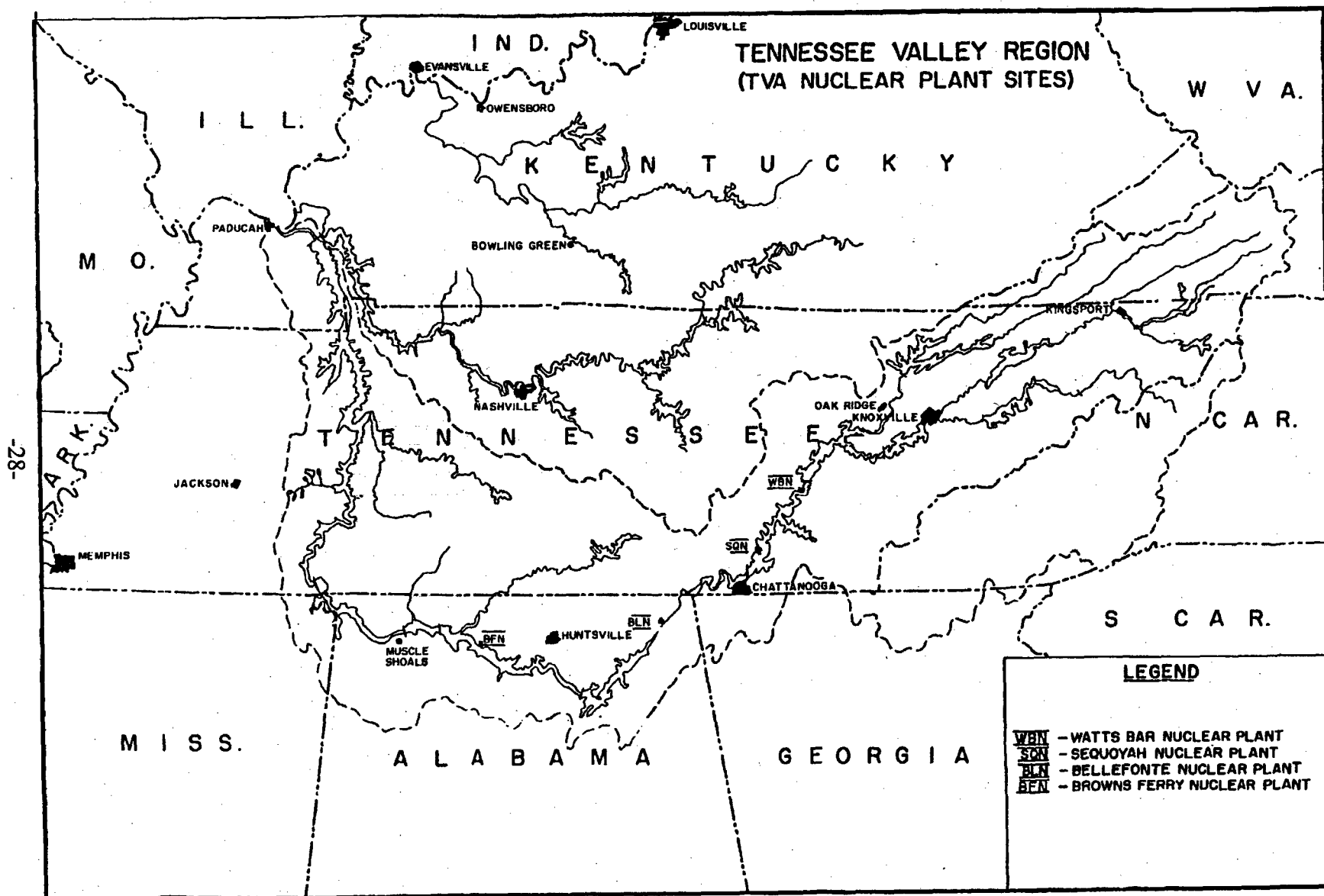
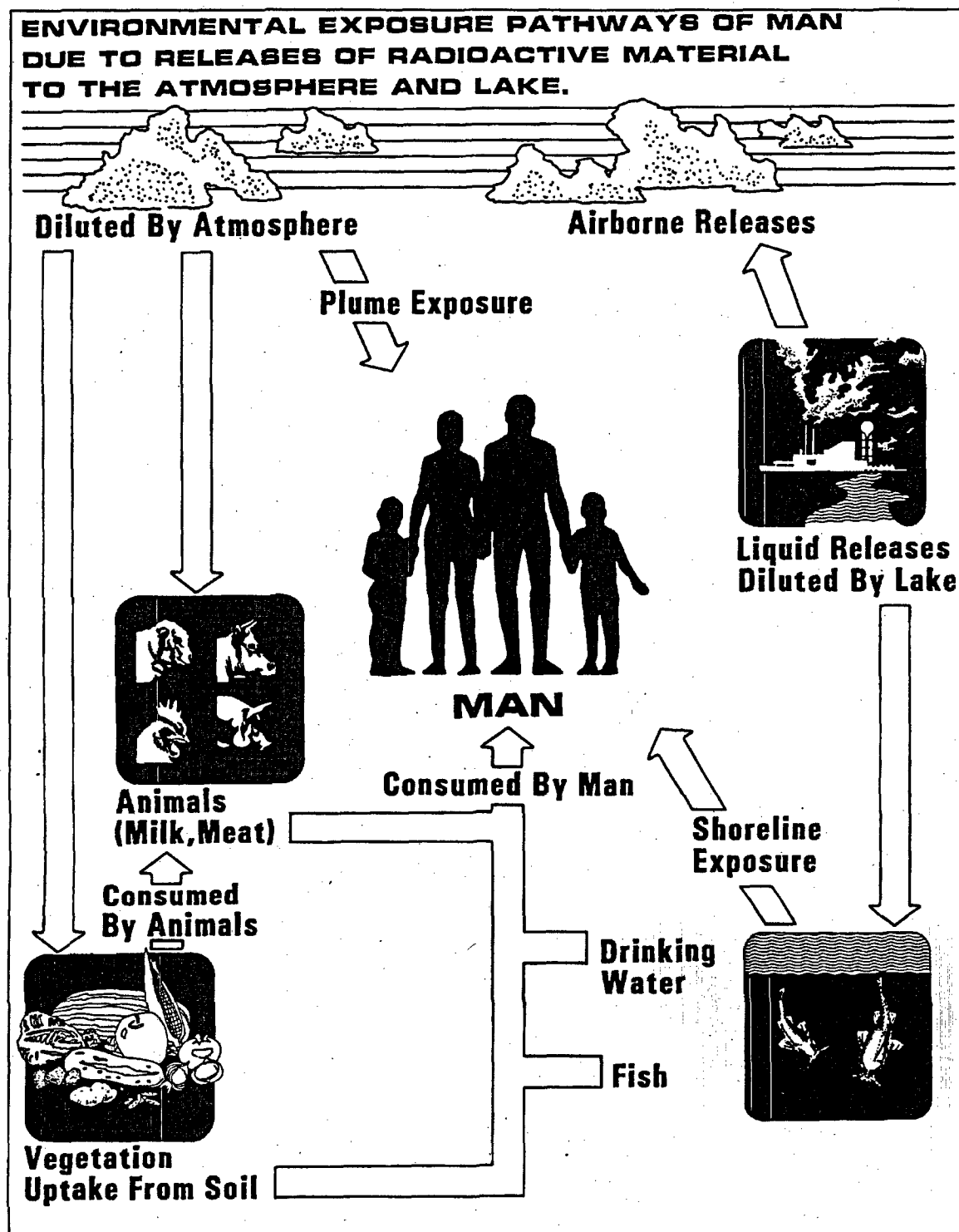


Figure 1

Figure 2



APPENDIX A

**RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM AND
SAMPLING LOCATIONS**

Table A-1

WATTS BAR NUCLEAR PLANT
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM

<u>Exposure Pathway and/or Sample</u>	<u>Number of Samples and Locations^b</u>	<u>Sampling and Collection Frequency</u>	<u>Type and Frequency of Analysis</u>
1. AIRBORNE			
a. Particulates	4 samples from locations (in different sectors) at or near the site boundary (LM-1, 2, 3, and 4). 4 samples from communities approximately 6-10 miles from the plant (PM-2, 3, 4, and 5). 2 samples from control locations greater than 10 miles from the plant (RM-2 and 3).	Continuous sampler operation with sample collection weekly (more frequently if required by dust loading).	Analyze for gross beta radioactivity greater than or equal to 24 hours following filter change. Perform gamma isotopic analysis on each sample if gross beta is greater than 10 times yearly mean of control sample. Composite at least once per 31 days (by location) for gamma scan.
b. Radioiodine	Samples from same locations as air particulates.	Continuous sampler operation with filter collection weekly.	I-131 at least once per 7 days. Analysis is performed by gamma spectroscopy.
c. Atmospheric Moisture	4 samples from locations (in different sectors) at or near the site boundary (LM-1, 2, 3, and 4) 2 samples from communities approximately 4-10 miles distance from the plant (PM-2, 5).	Continuous sampler operation with sample collection biweekly.	Analyze each sample for tritium.

Table A-1

**WATTS BAR NUCLEAR PLANT
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM^a**

<u>Exposure Pathway and/or Sample</u>	<u>Number of Samples and Locations^b</u>	<u>Sampling and Collection Frequency</u>	<u>Type and Frequency of Analysis</u>
c. Atmospheric Moisture (Cont.)	2 samples from control location greater than 10 miles from the plant (RM-2 and RM-3).		
d. Rainwater	Samples from same locations as air particulates.	Rainwater collected continuously with composite sample taken monthly.	Analyzed for gamma activity only if radioactivity in other media indicates the presence of increased levels of fallout.
e. Soil	Samples from same location as air particulates.	Once per year.	Gamma scan, Sr-89, Sr-90 once per year.
2. DIRECT	2 or more dosimeters (TLDs) placed At or near the site boundary in each of the 16 sectors. 2 or more dosimeters placed at stations located approximately 5 miles from the plant in each of the 16 sectors. 2 or more dosimeters in at least 8 additional locations of special interest, including at least 2 control stations.	At least once per 92 days.	Gamma dose at least once per 92 days.

Table A-1

**WATTS BAR NUCLEAR PLANT
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM^a**

<u>Exposure Pathway and/or Sample</u>	<u>Number of Samples and Locations^b</u>	<u>Sampling and Collection Frequency</u>	<u>Type and Frequency of Analysis</u>
3. WATERBORNE			
a. Surface	2 samples downstream from plant discharge (TRM 517.9 and TRM 523.1).	Collected by automatic sequential-type sampler ^c with composite samples collected over a period of approximately 31 days.	Gross beta, gamma scan, and tritium analysis of each sample.
	1 sample at a control location upstream from the plant discharge (TRM 529.3).		
b. Ground	Five sampling locations from groundwater monitoring wells adjacent to the plant (Wells No. 1, A, B, C, and D).	Collected by automatic sequential-type sampler with composite samples collected over a period of approximately 31 days.	Gross beta, gamma scan, and tritium analysis of each sample.
	1 sample from ground water source up gradient (Well No. 5).	Same as Well No. 1.	Gross beta, gamma scan, and tritium analysis of each sample.
	1 sample from ground water source up gradient (Farm L).	Grab sample at least once per 31 days.	Gross beta, gamma scan, and tritium analysis of each sample.
c. Drinking	1 sample at the first two potable surface water supplies, downstream from the plant (TRM 503.8 and TRM 473.0).	Collected by automatic sequential-type sampler ^c with composite sample collected monthly.	Gross beta, gamma scan, and tritium analysis of each sample.

Table A-1

WATTS BAR NUCLEAR PLANT
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM^a

<u>Exposure Pathway and/or Sample</u>	<u>Number of Samples and Locations^b</u>	<u>Sampling and Collection Frequency</u>	<u>Type and Frequency of Analysis</u>
c. Drinking (Con't)	1 sample at a control location TRM 529.3 ^d .		
d. Sediment from Shoreline	1 sample downstream from plant Discharge (TRM 513.0). 1 sample from a control location upstream from plant discharge (TRM 530.2).	At least once per 184 days.	Gamma scan of each sample.
e. Pond Sediment	1 sample from at least three locations in the Yard Holding Pond.	At least once per year.	Gamma scan of each sample.
5. INGESTION			
a. Milk	3 samples from farms and/or dairies in the immediate vicinity of the plant. 1 or more samples from control locations.	Every 2 weeks.	I-131 and gamma analysis on each sample. Sr-89 and Sr-90 once per quarter.
b. Fish	One sample of commercially important species and one sample of recreationally important species. One sample of each species from Chickamauga and Watts Bar Reservoirs.	At least once per 184 days.	Gamma scan on edible portions.

Table A-1

**WATTS BAR NUCLEAR PLANT
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM**

<u>Exposure Pathway and/or Sample</u>	<u>Number of Samples and Locations^b</u>	<u>Sampling and Collection Frequency</u>	<u>Type and Frequency of Analysis</u>
c. Vegetation ^c (Pasturage and grass)	Samples from farms producing milk but not providing a milk sample.	At least once per 31 day.	I-131 analysis and gamma scan of each sample.
d. Food Products	1 sample each of principal food products grown at private gardens and/or farms in the immediate vicinity of the plant.	Annually at time of harvest. The types of foods available for sampling will vary. Following is a list of typical foods which may be available: Cabbage, Lettuce and/or Greens Corn Green Beans Potatoes Tomatoes	Gamma scan on edible portion.

-
- a. The sampling program outlined in this table is that which was in effect at the end of 2005.
b. Sample locations are shown on Figures A-1, A-2, A-3.
c. Samples shall be collected by collecting an aliquot at intervals not exceeding 2 hours.
d. The samples collected at TRMs 503.8 and 473.0 are taken from the raw water supply, therefore, the upstream surface water sample will be considered the control sample for drinking water.
e. Vegetation sampling is applicable only for farms that meet the criteria for milk sampling and when milk sampling cannot be performed.

Table A-2
WATTS BAR NUCLEAR PLANT
RADIOLOGICAL ENVIRONMENTAL MONITORING PROGRAM
SAMPLING LOCATIONS

Map Location Number ^a	Station	Sector	Approximate Distance (Miles)	Indicator (I) or Control (C)	Samples Collected ^b
2	PM-2	NW	7.0	I	AP,CF,R,SAM
3	PM-3	NNE	10.4	I	AP,CF,R,S
4	PM-4	NE/ENE ^c	7.6	I	AP,CF,R,S
5	PM-5	S	8.0	I	AP,CF,R,S,AM
6	RM-2	SW	15.0	C	AP,CF,R,S,AM
7	RM-3	NNW	15.0	C	AP,CF,R,S,AM
8	LM-1	SSW	0.5	I	AP,CF,R,SAM
9	LM-2	NNE	0.4	I	AP,CF,R,SAM
10	LM-3	NNE	1.9	I	AP,CF,R,S,AM
11	LM-4	SE	0.9	I	AP,CF,R,S,AM
12	Farm L	SSW	1.3	I ^d	M,W
15	Farm K	ENE	11.6	C	M
18	Well #1	S	0.6	I	W
19	Farm Mu	ESE	3.7	I	M
20	Farm N	ESE	4.1	I	M
22	Farm EH	SSW	24.0	C	M
23	Well #5	N	0.5	C	W
25	TRM 517.9	--	9.9 ^e	I	SW
26	TRM 523.1	--	4.7 ^e	I	SW
27	TRM 529.3	--	1.5 ^e	C	SW,PW ^f
31	TRM 473.0		54.8 ^e	I	PW
	(C. F. Industries)				
32	TRM 513.0	--	14.8 ^e	I	SS
33	TRM 530.2	--	2.4 ^e	C	SS
35	TRM 503.8	--	24.0 ^e	I	PW
	(Dayton)				
38	Chickamauga Reservoir			I	F
39	Watts Bar Reservoir			C	F
81	Yard Pond	SSE/S/SSW	Onsite	I	PS
82	Well A	SSE	0.6	I	W
83	Well B	SSE	0.5	I	W
84	Well C	ESE	0.3	I	W
85	Well D	SSE	0.4	I	W

a. See Figures A-1, A-2, and A-3

b. Sample codes:

AM = Atmospheric Moisture

AP = Air particulate filter

CF = Charcoal filter

F = Fish

M = Milk

PW = Public Water

PS = Pond Sediment

R = Rainwater

S = Soil

SS = Shoreline sediment

SW = Surface water

W = Well water

c. Station located on the boundary between these two sectors.

d. A control for well water.

e. Distance from the plant discharge (TRM 527.8)

f. The surface water sample is also used as a control for public water.

Table A-3
WATTS BAR NUCLEAR PLANT
THERMOLUMINESCENT DOSIMETER (TLD) LOCATIONS

Map ^a Location Number	Station	Sector	Approximate Distance (miles)	Onsite (On) ^b or Offsite (Off)
2	NW-3	NW	7.0	Off
3	NNE-3	NNE	10.4	Off
4	ENE-3	NE/ENE	7.6	Off
5	S-3	S	7.8	Off
6	SW-3	SW	15.0	Off
7	NNW-4	NNW	15.0	Off
10	NNE-1A	NNE	1.9	On
11	SE-1A	SE	0.9	On
12	SSW-2	SSW	1.3	On
14	W-2	W	4.8	Off
15	E-3	E	15.0	Off
40	N-1	N	1.2	On
41	N-2	N	4.7	Off
42	NNE-1	NNE	1.2	On
43	NNE-2	NNE	4.1	Off
44	NE-1	NE	0.9	On
45	NE-2	NE	2.9	Off
46	NE-3	NE	6.1	Off
47	ENE-1	ENE	0.7	On
48	ENE-2	ENE	5.8	Off
49	E-1	E	1.3	On
50	E-2	E	5.0	Off
51	ESE-1	ESE	1.2	On
52	ESE-2	ESE	4.4	Off
54	SE-2	SE	5.3	Off
55	SSE-1A	SSE	0.6	On
56	SSE-2	SSE	5.8	Off
57	S-1	S	0.7	On
58	S-2	S	4.8	Off
59	SSW-1	SSW	0.8	On
60	SSW-3	SSW	5.0	Off
62	SW-1	SS	0.8	On
63	SW-2	SW	5.3	Off
64	WSW-1	WSW	0.9	On
65	WSW-2	WSW	3.9	Off
66	W-1	W	0.9	On
67	WNW-1	WNW	0.9	On
68	WNW-2	WNW	4.9	Off
69	NW-1	NW	1.1	On
70	NW-2	NW	4.7	Off
71	NNW-1	NNW	1.0	On
72	NNW-2	NNW	4.5	Off
73	NNW-3	NNW	7.0	Off
74	ENE-2A	ENE	3.5	Off
75	SE-2A	SE	3.1	Off
76	S-2A	S	2.0	Off
77	W-2A	W	3.2	Off
78	NW-2A	NW	3.0	Off
79	SSE-1	SE	0.5	On

a. See Figures A-1, A-2, and A-3.

b. TLDs designated "onsite" are located 2 miles or less from the plant; "offsite" are located more than 2 miles from the plant.

Figure A-1

Radiological Environmental Sampling Locations

Within 1 Mile of the Plant

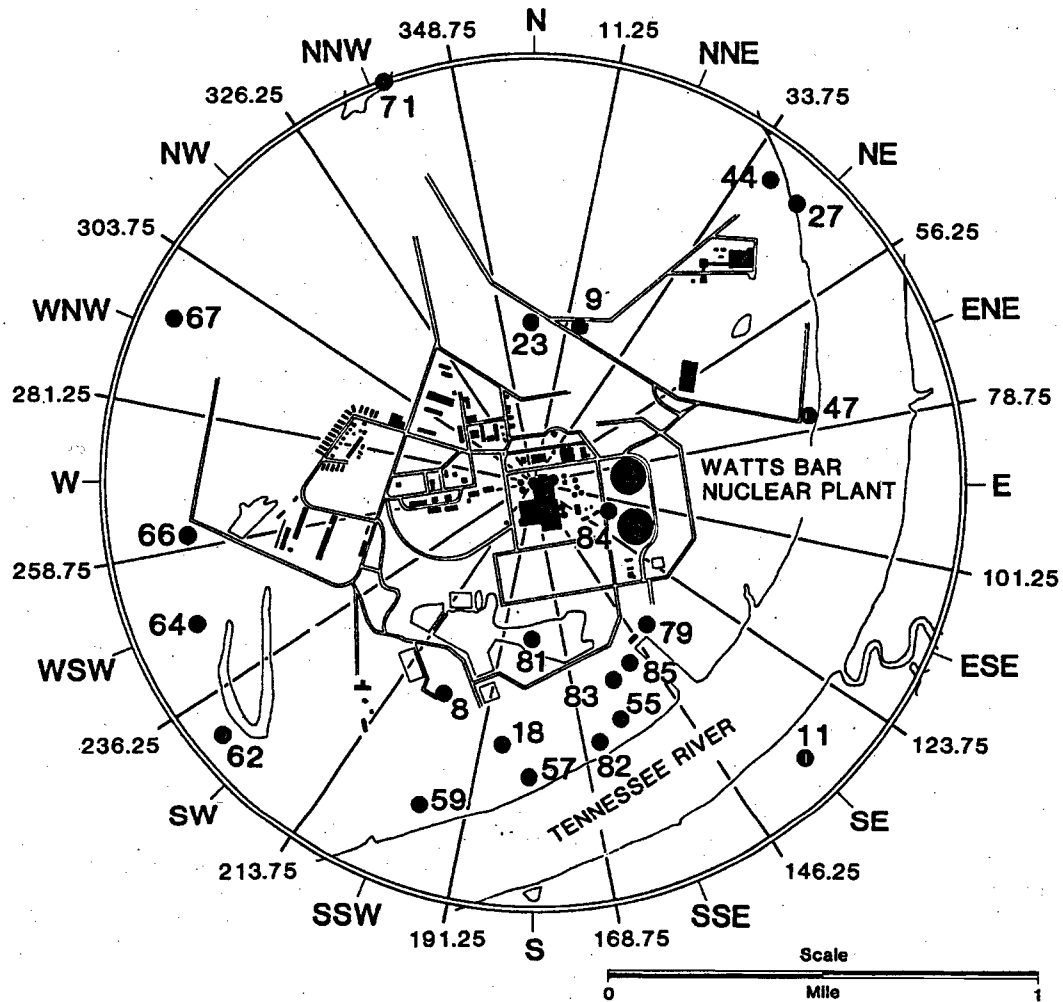


Figure A-2

Radiological Environmental Sampling Locations

From 1 to 5 Miles From The Plant

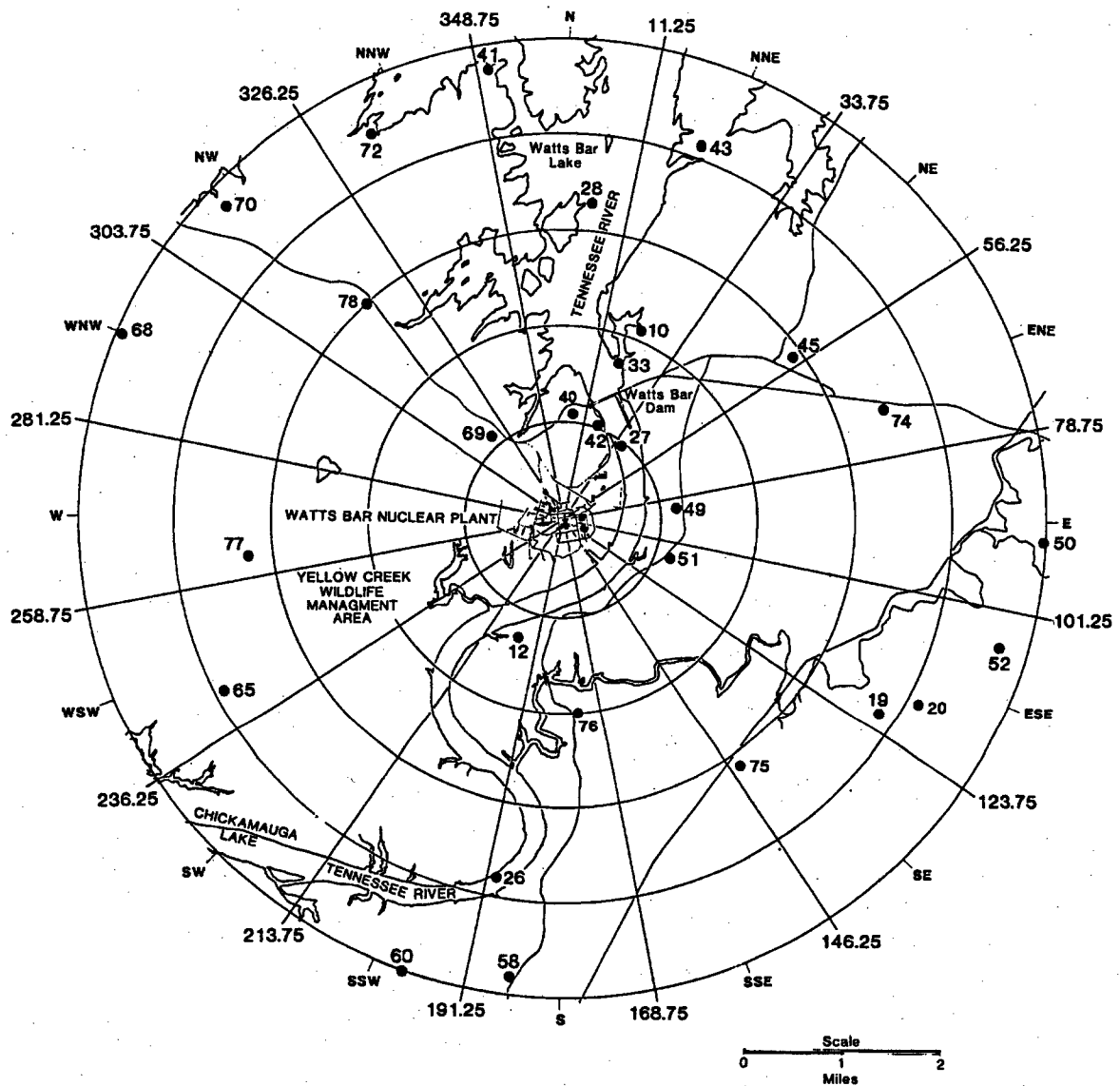
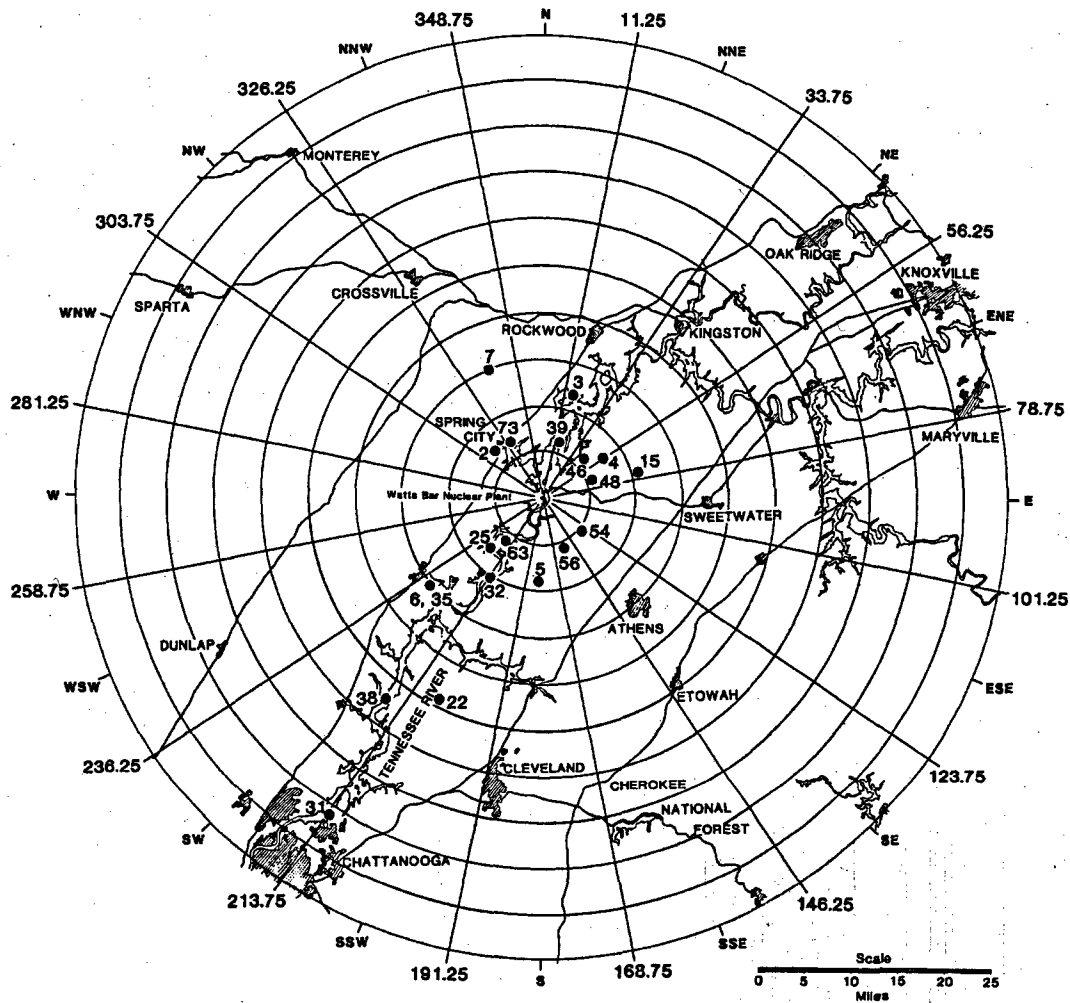


Figure A-3

Radiological Environmental Sampling Locations

Greater Than 5 Miles From the Plant



APPENDIX B
2005 PROGRAM MODIFICATIONS

Appendix B

Radiological Environmental Monitoring Program Modification

There were no modifications to the WBN REMP during 2005.

APPENDIX C
PROGRAM DEVIATIONS

Appendix C

Program Deviations

Problems with sampling equipment resulted in sample unavailability or inadequate sample volumes for one set of air particulate filter and charcoal cartridge samples and one well water sample during 2005. Table C-1 provides additional details on the missed samples resulting from these equipment problems.

Table C-1

Radiological Environmental Monitoring Program Deviations

<u>Date</u>	<u>Station</u>	<u>Location</u>	<u>Remarks</u>
07/26/05	RM-2	15.0 miles SSW	The total sample volume for air filter and charcoal cartridge samples was not adequate due to a failure of the sampling pump. The problem was found to be in the drive motor for the pump. The motor was replaced and the system returned to normal operation for the next sampling cycle. The missed samples resulting from the equipment problem were documented with PER 86942.
10/04/05	Well #1	0.6 miles S	The sampler at this location was nonoperational for the majority of the sampling period due to a loss of power. Construction activity required that the power be temporarily disconnected. A new service was connected and the sampler returned to normal operation for the next sampling period. The missed sample was documented with PER 90694.

APPENDIX D

ANALYTICAL PROCEDURES

Appendix D

Analytical Procedures

Analyses of environmental samples are performed by the radioanalytical laboratory located at the Western Area Radiological Laboratory facility in Muscle Shoals, Alabama. Analysis procedures are based on accepted methods. A summary of the analysis techniques and methodology follows.

The gross beta measurements are made with an automatic low background counting system. Normal counting times are 50 minutes. Water samples are prepared by evaporating 500 ml of samples to near dryness, transferring to a stainless steel planchet, and completing the evaporation process. Air particulate filters are counted directly in a shallow planchet.

The specific analysis of I-131 in milk is performed by first isolating and purifying the iodine by radiochemical separation and then counting the final precipitate on a beta-gamma coincidence counting system. The normal count time is 50 minutes. With the beta-gamma coincidence counting system, background counts are virtually eliminated and extremely low levels of activity can be detected.

After a radiochemical separation, samples analyzed for Sr-89, 90 are counted on a low background beta counting system. The sample is counted a second time after a 7-day ingrowth period. From the two counts the Sr-89 and Sr-90 concentrations can be determined.

Water samples are analyzed for tritium content by first distilling a portion of the sample and then counting by liquid scintillation. A commercially available scintillation cocktail is used.

Gamma analyses are performed in various counting geometries depending on the sample type and volume. All gamma counts are obtained with germanium type detectors interfaced with a high resolution gamma spectroscopy system. Spectral data reduction is performed by the computer program HYPERMET.

The charcoal cartridges used to sample gaseous radioiodine are analyzed by gamma spectroscopy using a high resolution gamma spectroscopy system with germanium detectors.

Atmospheric moisture samples are collected on silica gel from a metered air flow. The moisture is released from the silica gel by heating and a portion of the distillate is counted by liquid scintillation for tritium using commercially available scintillation cocktail.

The necessary efficiency values, weight-efficiency curves, and geometry tables are established and maintained on each detector and counting system. A series of daily and periodic quality control checks are performed to monitor counting instrumentation. System logbooks and control charts are used to document the results of the quality control checks.

APPENDIX E

NOMINAL LOWER LIMITS OF DETECTION (LLD)

Appendix E

Nominal Lower Limits of Detection

A number of factors influence the LLD, including sample size, count time, counting efficiency, chemical processes, radioactive decay factors, and interfering isotopes encountered in the sample. The most probable values for these factors have been evaluated for the various analyses performed in the environmental monitoring program. The nominal LLDs calculated from these values, in accordance with the methodology prescribed in the ODCM, are presented in Table E-1. The maximum values for the lower limits of detection specified in the ODCM are shown in Table E-2.

The nominal LLDs are also presented in the data tables. For analyses for which nominal LLDs have not been established, an LLD of zero is assumed in determining if a measured activity is greater than the LLD.

TABLE E-1

Nominal LLD Values
A. Radiochemical Procedures

	Air Filters (pCi/m ³)	Water (pCi/L)	Milk (pCi/L)	Wet Vegetation (pCi/Kg wet)	Sediment and Soil (pCi/g dry)
Gross Beta	0.002	1.9			
Tritium	3.0	300			
Iodine-131		0.4	0.4	6.0	
Strontium-89	0.0011	5.0	3.5	31.0	1.6
Strontium-90	0.0004	2.0	2.0	12.0	0.4

Table E-1
Nominal LLD Values
B. Gamma Analyses

	Particulate Filter <u>pCi/m3</u>	Charcoal Filter <u>pCi/m3</u>	Water and Milk <u>pCi/L</u>	Vegetation and Grain <u>pCi/g, dry</u>	Wet Vegetation <u>pCi/kg, wet</u>	Soil and Sediment <u>pCi/g, dry</u>	Fish <u>pCi/g, dry</u>	Clam Flesh <u>pCi/g, dry</u>	Foods Tomatoes Potatoes, etc. <u>pCi/kg, wet</u>
Ce-141	.005	.02	10	.07	35	.10	.07	.35	20
Ce-144	.01	.07	30	.15	115	.20	.15	.85	60
Cr-51	.02	0.15	45	.30	200	.35	.30	2.40	95
I-131	.005	0.03	10	.20	60	.25	.20	1.70	20
Ru-103	.005	0.02	5	.03	25	.03	.03	.25	25
Ru-106	.02	0.12	40	.15	190	.20	.15	1.25	90
Cs-134	.005	0.02	5	.03	30	.03	.03	.14	10
Cs-137	.005	0.02	5	.03	25	.03	.03	.15	10
Zr-95	.005	0.03	10	.05	45	.05	.05	.45	45
Nb-95	.005	0.02	5	.25	30	.04	.25	.25	10
Co-58	.005	0.02	5	.03	20	.03	.03	.25	10
Mn-54	.005	0.02	5	.03	20	.03	.03	.20	10
Zn-65	.005	0.03	10	.05	45	.05	.05	.40	45
Co-60	.005	0.02	5	.03	20	.03	.03	.20	10
K-40	.04	0.30	100	.40	400	.75	.40	3.50	250
Ba-140	.015	0.07	25	.30	130	.30	.30	2.40	50
La-140	.01	0.04	10	.20	50	.20	.20	1.40	25
Fe-59	.005	0.04	10	.08	40	.05	.08	.45	25
Be-7	.02	0.15	45	.25	200	.25	.25	1.90	90
Pb-212	.005	0.03	15	.04	40	.10	.04	.30	40
Pb-214	.005	0.07	20	.50	80	.15	.50	.10	80
Bi-214	.005	0.05	20	.10	55	.15	.10	.50	40
Bi-212	.02	0.20	50	.25	250	.45	.25	2.00	130
Tl-208	.002	0.02	10	.03	30	.06	.03	.25	30
Ra-224	--	--	--	--	--	.75	--	--	--
Ra-226	--	--	--	--	--	.15	--	--	--
Ac-228	.01	0.07	20	.10	70	.25	.10	.75	50

Table E-2

Maximum Values for the Lower Limits of Detection (LLD)
Specified by the WBN Offsite Dose Calculation Manual

<u>Analysis</u>	<u>Water pCi/L</u>	<u>Airborne Particulate or Gases pCi/m³</u>	<u>Fish pCi/kg. wet</u>	<u>Milk pCi/L</u>	<u>Food Products pCi/kg. wet</u>	<u>Sediment pCi/kg. dry</u>
gross beta	4	1×10^{-2}	N.A.	N.A.	N.A.	N.A.
H-3	2000 ^a	N.A.	N.A.	N.A.	N.A.	N.A.
Mn-54	15	N.A.	130	N.A.	N.A.	N.A.
Fe-59	30	N.A.	260	N.A.	N.A.	N.A.
Co-58,60	15	N.A.	130	N.A.	N.A.	N.A.
Zn-65	30	N.A.	260	N.A.	N.A.	N.A.
Zr-95	30	N.A.	N.A.	N.A.	N.A.	N.A.
Nb-95	15	N.A.	N.A.	N.A.	N.A.	N.A.
I-131	1 ^b	7×10^{-2}	N.A.	1	60	N.A.
Cs-134	15	5×10^{-2}	130	15	60	150
Cs-137	18	6×10^{-2}	150	18	80	180
Ba-140	60	N.A.	N.A.	60	N.A.	N.A.
La-140	15	N.A.	N.A.	15	N.A.	N.A.

a. If no drinking water pathway exists, a value of 3000 pCi/liter may be used.

b. If no drinking water pathway exists, a value of 15 pCi/liter may be used.

APPENDIX F

QUALITY ASSURANCE/QUALITY CONTROL PROGRAM

Appendix F

Quality Assurance/Quality Control Program

A thorough quality assurance program is employed by the laboratory to ensure that the environmental monitoring data are reliable. This program includes the use of written, approved procedures in performing the work, a complete training and qualification process, internal self assessments of program performance, audits by various external organizations, and a laboratory quality control program.

The quality control program employed by the radioanalytical laboratory is designed to ensure that the sampling and analysis process is working as intended. The program includes equipment checks and the analysis of quality control samples along with routine samples.

Radiation detection devices can be tested in a number of ways. There are two primary tests which are performed on all devices. In the first type, the device is operated without a sample on the detector to determine the background count rate. The background counts are usually low values and are due to machine noise, cosmic rays, trace amounts of radioactivity in the materials used to construct the detector, or terrestrial sources. Charts of background counts are kept and monitored to ensure that no unusually high or low values are encountered.

In the second test, the device is operated with a known amount of radioactivity present. The number of counts registered from such a radioactive standard should be very reproducible. These reproducibility checks are also monitored to ensure that they are neither higher nor lower than expected. When counts from either test fall outside the expected range, the device is inspected for malfunction or contamination. It is not placed into service until it is operating properly.

In addition to these two general checks, other quality control checks are performed on the variety of detectors used in the laboratory. The exact nature of these checks depends on the type of device and the method it uses to detect radiation or store the information obtained.

Quality control samples of a variety of types are used by the laboratory to verify the performance of different portions of the analytical process. These quality control samples may be blanks, replicate samples, blind samples, or cross-checks.

Blanks are samples which contain no measurable radioactivity or no activity of the type being measured. Such samples are analyzed to determine whether there is any contamination of equipment or commercial laboratory chemicals, cross-contamination in the chemical process, or interference from isotopes other than the one being measured.

Duplicate samples are generated at random by the sample computer program which schedules the collection of the routine samples. For example, if the routine program calls for four milk samples every week, on a random basis each farm might provide an additional sample several times a year. These duplicate samples are analyzed along with other routine samples. They provide information about the variability of radioactive content in the various sample media.

If enough sample is available for a particular analysis, the laboratory personnel can split it into two portions. Such a sample can provide information about the variability of the analytical process since two identical portions of material are analyzed side by side.

Analytical knowns are another category of quality control sample. A known amount of radioactivity is added to a sample medium. Whenever possible, the analytical knowns contain the same amount of radioactivity each time they are run. In this way, the lab staff has immediate knowledge of the quality of the measurement process. A portion of these samples are also blanks.

Blind spikes are samples containing radioactivity which are introduced into the analysis process disguised as ordinary environmental samples. The lab staff does not know the samples contain radioactivity. Since the bulk of the ordinary workload of the environmental

laboratory contains no measurable activity or only naturally occurring radioisotopes, blind spikes can be used to test the detection capability of the laboratory or they can be used to test the data review process. If an analysis routinely generates numerous zeroes for a particular isotope, the presence of a positive result will be brought to the attention of the laboratory supervisor in the daily review process. Blind spikes test this process since they contain radioactivity at levels high enough to be detected. Furthermore, the activity can be put into such samples at the extreme limit of detection (near the LLD) to determine whether or not the laboratory can find any unusual radioactivity whatsoever.

Another category of quality control samples is internal cross-checks. These samples have a known amount of radioactivity added and are presented to the lab staff labeled as cross-check samples. This means that the quality control staff knows the radioactive content or "right answer" but the personnel performing the analyses do not. They are aware they are being tested. Such samples test the best performance of the laboratory by determining if the staff can find the "right answer". These samples provide information about the accuracy of the measurement process. Further information is available about the variability of the process if multiple analyses are requested on the same sample. Like blind spikes or analytical knowns, these samples can also be spiked with low levels of activity to test detection limits. During 2005, all analysis results for internal cross-check samples were within agreement limits when compared to the known value.

To provide for interlaboratory comparison program cross-check samples, the laboratory participated in an environmental level cross-check program available through Analytics Incorporated. The results of TVA's participation in this program are presented in Table F-1.

Quality control data are routinely collected, examined, and reported to laboratory supervisory personnel. They are checked for trends, problem areas, or other indications that a portion of the analytical process needs correction or improvement. The end results is a measurement process that provides reliable and verifiable data and is sensitive enough to measure the presence of radioactivity far below the levels which could be harmful to humans.

Table F-1

Results For 2005 External Cross-Checks

<u>Test Period</u>	<u>Sample Type / Analysis</u>	<u>Results</u>		<u>3 Sigma Range</u>		
		<u>Known</u>	<u>TVA</u>			
First Quarter	Water (pCi/L)					
	H-3	6040	6070	4228	-	7852
First Quarter	Water (pCi/L)					
	Gross Beta	131	132	111	-	151
First Quarter	Water (pCi/L)					
	¹³¹ I	66	76	51	-	81
	¹⁴¹ Ce	221	220	188	-	254
	⁵¹ Cr	322	323	225	-	419
	¹³⁴ Cs	134	125	114	-	154
	¹³⁷ Cs	125	129	106	-	144
	⁵⁸ Co	111	114	94	-	128
	⁵⁴ Mn	154	165	131	-	177
	⁵⁹ Fe	107	104	91	-	123
	⁶⁵ Zn	191	195	134	-	248
	⁶⁰ Co	139	145	118	-	160
First Quarter	Milk (pCi/L)					
	¹³¹ I	82	79	67	-	97
	⁸⁹ Sr	85	94	70	-	100
	⁹⁰ Sr	14	9	0	-	29
Third Quarter	Sand (pCi/gram)					
	¹⁴¹ Ce	0.340	0.335	0.289	-	0.391
	⁵¹ Cr	0.493	0.452	0.345	-	0.641
	¹³⁴ Cs	0.178	0.183	0.151	-	0.205
	¹³⁷ Cs	0.284	0.279	0.241	-	0.327
	⁵⁸ Co	0.092	0.090	0.073	-	0.111
	⁵⁴ Mn	0.134	0.147	0.114	-	0.154
	⁵⁹ Fe	0.089	0.086	0.070	-	0.108
	⁶⁵ Zn	0.180	0.190	0.126	-	0.234
	⁶⁰ Co	0.244	0.240	0.207	-	0.281
Third Quarter	Air Filter (pCi/filter)					
	Gross Beta	140	133	119	-	161
Third Quarter	Air Filter (pCi/filter)					
	¹⁴¹ Ce	163	154	139	-	187
	⁵¹ Cr	236	250	165	-	307
	¹³⁴ Cs	86	72	71	-	101
	¹³⁷ Cs	136	135	116	-	156
	⁵⁸ Co	44	44	29	-	59
	⁵⁴ Mn	64	67	49	-	79
	⁵⁹ Fe	43	42	28	-	58
	⁶⁵ Zn	86	84	60	-	112
	⁶⁰ Co	117	115	99	-	135
Third Quarter	Water (pCi/L)					
	H-3	4190	4360	2933	-	5447

APPENDIX G

LAND USE SURVEY

Appendix G

Land Use Survey

A land use survey was conducted in accordance with the provisions of ODCM Control 1.3.2 to identify the location of the nearest milk animal, the nearest residence, and the nearest garden of greater than 500 square feet producing fresh leafy vegetables in each of 16 meteorological sectors within a distance of 5 miles from the plant.

The land use survey was conducted between April 1 and October 1 using appropriate techniques such as door-to-door survey, mail survey, telephone survey, aerial survey, or information from local agricultural authorities or other reliable sources.

From the data of the surveys, relative radiation doses were projected for individuals near the plant. Doses from air submersion were calculated for the nearest resident in each sector, while doses from drinking milk or eating foods produced near the plant were calculated for the areas with milk producing animals and gardens, respectively. These doses were calculated using design basis source terms and historical meteorological data. They also assume that the effluent releases are equivalent to the design basis source terms. The calculated doses are relative in nature and do not reflect actual exposures received by individuals living near WBN.

In response to the 2005 WBN land use survey, annual doses were calculated for air submersion, vegetable ingestion, and milk ingestion. There were no changes in the location of the nearest resident in 2005.

Doses calculated for ingestion of home grown foods changed in three sectors compared to the results calculated in 2004 due to changes in the locations of the nearest garden.

For milk ingestion, projected doses were consistent with those calculated for 2004. Except for the farm where the owner does not want to participate in the program (Farm Ho), milk samples are being collected from the three farms where the calculated doses are highest. One of the farms providing a milk sample is between Farm Ho and the plant.

The results of the 2005 land use survey and resulting relative projected annual dose calculations documented that there were no significant changes in land use of unrestricted areas. No required changes in the sampling locations for the radiological environmental monitoring program were identified as result of the land use survey.

Tables G-1, G-2, and G-3 compare results of the relative projected annual dose calculations for 2004 and 2005.

Table G-1

Watts Bar Nuclear Plant
Relative Projected Annual Air Submersion Dose to the Nearest Residence
Within 5 Miles of Plant^a

Sector	mrem/year			
	2004		2005	
	Approximate Distance (Miles)	Annual Dose	Approximate Distance (Miles)	Annual Dose
N	1.3	0.24	1.3	0.24
NNE	2.3	0.20	2.3	0.20
NE	2.1	0.19	2.1	0.19
ENE	1.5	0.31	1.5	0.31
E	2.0	0.18	2.0	0.18
ESE	2.8	0.12	2.8	0.12
SE	0.9	0.76	0.9	0.76
SSE	1.0	0.38	1.0	0.38
S	1.0	0.37	1.0	0.37
SSW	1.2	0.29	1.2	0.29
SW	2.7	0.09	2.7	0.09
WSW	1.3	0.38	1.3	0.38
W	1.8	0.07	1.8	0.07
WNS	1.0	0.17	1.0	0.17
NW	1.3	0.09	1.3	0.09
NNW	2.7	0.03	2.7	0.03

a. Assumes the effluent releases are equivalent to design basis source terms.

Table G-2

Watts Bar Nuclear Plant
Relative Projected Annual Ingestion Dose to Child's Bone
Organ from Ingestion of Home-Grown Foods
Nearest Garden Within 5 Miles of Plant^a

mrem/year

<u>Sector</u>	<u>2004</u>		<u>2005</u>	
	<u>Approximate Distance (Miles)</u>	<u>Annual Dose</u>	<u>Approximate Distance (Miles)</u>	<u>Annual Dose</u>
N	4.8	0.50	4.8	0.50
NNE	3.8	1.68	3.8	1.68
NE	2.4	3.36	2.4	3.36
ENE	4.4	1.14	3.1	1.93
E	3.4	1.63	3.4	1.63
ESE	3.8	1.57	3.8	1.57
SE	2.9	2.17	2.9	2.17
SSE	3.1	1.40	3.1	1.40
S	2.3	2.53	1.4	5.11
SSW	b		b	
SW	2.6	2.06	b	
WSW	1.1	7.87	1.1	7.87
W	2.1	1.20	2.1	1.20
WNW	3.6	0.26	3.6	0.26
NW	1.3	1.97	1.3	1.97
NNW	2.9	0.62	2.9	0.62

a. Assumes the effluent releases are equivalent to design basis source terms.

b. Garden not identified within 5 miles of the plant in this sector.

Table G-3

Watts Bar Nuclear Plant
Relative Projected Annual Dose to Receptor Thyroid from Ingestion of Milk^a
(Nearest Milk-Producing Animal Within 5 Miles of Plant)

mrem/year					
<u>Location</u>	<u>Sector</u>	Approximate Distance <u>Miles</u>	<u>Annual Dose</u>		<u>X/Q</u> <u>s/m³</u>
			<u>2004</u>	<u>2005</u>	
<u>Cows</u>					
Farm Mu ^b	ESE	3.7	0.08	0.08	1.14 E-6
Farm N ^b	ESE	4.1	0.04	0.04	9.44 E-7
Farm L ^b	SSW	1.3	0.27	0.27	2.36 E-6
Farm Ho ^c	SSW	1.5	0.33	0.33	1.43 E-6

-
- a. Assumes the plant is operating and effluent releases are equivalent to design basis source terms.
b. Milk being sampled at these locations.
c. Owner unwilling to provide samples or information. The dose calculated assumes consumption of the milk by an adult and a feeding factor equivalent to 33 percent. If milk from this location were to be consumed by teens, children or infants, the estimated doses would be 0.52, 1.07 and 2.53 mrem/year, respectively.

APPENDIX H
DATA TABLES AND FIGURES

Table H-1

DIRECT RADIATION LEVELS

Average External Gamma Radiation Levels at Various Distances from
Watts Bar Nuclear Plant for Each Quarter-2005
mR / Quarter (a)

Distance Miles	Average External Gamma Radiation Levels (b)				per annum mR/yr
	1st qtr	2nd qtr	3rd qtr	4th qtr	
0 - 1	17.0 ± 2.4	17.6 ± 2.1	16.4 ± 2.2	17.0 ± 2.1	68
1 - 2	14.9 ± 0.9	16.7 ± 1.4	15.3 ± 1.1	15.8 ± 1.6	63
2 - 4	15.0 ± 1.8	16.1 ± 1.4	15.0 ± 1.5	15.2 ± 1.2	61
4 - 6	15.2 ± 2.1	16.4 ± 1.6	15.7 ± 1.7	15.9 ± 1.6	63
> 6	13.7 ± 2.4	15.3 ± 2.0	14.5 ± 2.0	14.5 ± 2.0	58
Average, 0 - 2 miles (onsite)	16.3 ± 2.2	17.3 ± 2.0	16.0 ± 2.0	16.5 ± 2.0	66
Average, >2 miles (offsite)	14.7 ± 2.2	16.0 ± 1.8	15.2 ± 1.9	15.3 ± 1.8	61

(a) Field periods normalized to one standard quarter (2190 hours)
(b) Average of the individual measurements in the set ± 1 standard deviation of the set

TABLE H - 2

DIRECT RADIATION LEVELS

Individual Stations at Watts Bar Nuclear Plant

Environmental Radiation Levels								
Map Location Number	TLD Station Number	Direction, Degrees	Approx Distance, Miles	mR/quarter				Annual Exposure mR/year
				1 st Qtr Dec - Feb 2004-5	2 nd Qtr Mar - May 2005	3 rd Qtr Jun - Aug 2005	4 th Qtr Sep - Nov 2005	
40	N-1	10	1.2	15.9	18.8	16.9	18.2	69.7
41	N-2	350	4.7	14.8	18.2	17.0	16.8	66.8
42	NNE-1	21	1.2	15.0	17.8	16.4	17.7	66.8
10	NNE-1A	22	1.9	14.6	(1)	13.9	14.5	57.4
43	NNE-2	20	4.1	15.4	15.3	14.6	14.8	60.1
3	NNE-3	17	10.4	12.6	14.6	14.1	14.6	55.9
44	NE-1	39	.9	15.5	19.1	17.5	18.0	70.1
45	NE-2	54	2.9	16.2	17.0	16.0	16.4	65.6
46	NE-3	47	6.1	13.6	13.7	12.4	12.4	52.2
47	ENE-1	74	.7	15.0	17.9	16.5	16.9	66.2
48	ENE-2	69	5.8	16.0	15.6	14.6	14.9	61.1
74	ENE-2A	69	3.5	13.8	13.8	12.3	13.0	52.9
4	ENE-3	56	7.6	15.5	15.5	14.5	15.0	60.4
49	E-1	85	1.3	16.2	16.6	15.2	15.4	63.4
50	E-2	92	5.0	17.9	17.1	16.0	16.9	67.8
15	E-3	90	15.0	19.0	19.0	18.3	18.6	74.9
51	ESE-1	109	1.2	13.9	14.5	13.6	13.7	55.7
52	ESE-2	106	4.4	20.1	19.2	18.4	18.4	76.1
11	SE-1A	138	.9	15.7	16.5	15.3	15.3	62.8
54	SE-2	128	5.3	15.0	14.6	13.6	14.4	57.6
75	SE-2A	144	3.1	16.3	15.9	15.0	15.1	62.2
79	SSE-1	146	.6	17.7	17.1	15.5	16.4	66.8
55	SSE-1A	161	.6	15.2	15.1	13.8	14.6	58.6
56	SSE-2	156	5.8	17.6	16.9	16.2	16.9	67.6

note (1) Sum of available quarterly data normalized to 1 year for the annual exposure value

TABLE H - 2 continued

DIRECT RADIATION LEVELS

Individual Stations at Watts Bar Nuclear Plant

Environmental Radiation Levels								
Map Location Number	TLD Station Number	Direction, Degrees	Approx Distance, Miles	mR/quarter				Annual Exposure mR/year
				1 st Qtr Dec - Feb 2004-5	2 nd Qtr Mar - May 2005	3 rd Qtr Jun - Aug 2005	4 th Qtr Sep - Nov 2005	
57	S-1	182	.7	17.0	16.0	14.9	15.8	63.7
58	S-2	185	4.8	13.1	13.7	12.8	13.2	52.8
76	S-2A	177	2.0	17.5	17.8	16.7	16.6	68.5
5	S-3	185	6.2	14.0	13.9	13.0	13.1	54.0
59	SSW-1	199	.8	21.5	20.5	19.7	19.3	81.0
12	SSW-2	200	1.3	15.1	15.8	15.0	14.5	60.3
60	SSW-3	199	5.0	(1)	14.5	13.7	13.7	55.9
62	SW-1	226	.8	20.4	19.2	18.3	18.5	76.5
63	SW-2	220	5.3	15.7	16.0	15.2	15.5	62.4
6	SW-3	225	15.0	11.6	14.9	14.5	14.1	55.1
64	WSW-1	255	.9	16.3	15.4	14.3	15.1	61.1
65	WSW-2	247	4.0	14.4	17.8	17.6	17.2	67.1
66	W-1	270	.9	18.5	16.9	15.8	16.8	67.9
14	W-2	277	4.8	11.6	14.8	13.7	13.6	53.7
77	W-2A	268	3.2	13.7	17.2	16.0	15.4	62.2
67	WNW-1	294	.9	18.8	22.2	21.4	22.0	84.4
68	WNW-2	292	4.9	14.4	18.4	18.5	18.3	69.6
69	NW-1	320	1.1	13.7	17.1	15.9	16.4	63.1
70	NW-2	313	4.7	13.7	17.6	17.1	17.1	65.5
78	NW-2A	321	3.0	12.5	15.2	14.3	14.7	56.7
2	NW-3	317	7.0	14.9	18.6	17.6	17.1	68.1
71	NNW-1	340	1.0	12.9	15.5	14.4	14.9	57.7
72	NNW-2	333	4.5	13.2	16.9	15.9	16.5	62.4
73	NNW-3	329	7.0	10.9	13.2	12.0	12.2	48.3
7	NNW-4	337	15.0	11.4	14.4	13.6	13.5	52.9

note (1) Sum of available quarterly data normalized to 1 year for the annual exposure value

Tennessee Valley Authority
Environmental Radiological Monitoring and Instrumentation
Western Area Radiological Laboratory



RADIOACTIVITY IN AIR FILTER
PCI/M3 - 0.037 BQ/M3

Name of Facility: WATTS BAR NUCLEAR PLANT
Location of Facility: RHEA TENNESSEE

Docket Number: 50-390,391
Reporting Period: 2005

Type and Total Number of Analysis Performed	Lower Limit of Detection (LLD) See Note 1	Indicator Locations Mean (F) Range See Note 2	Location with Highest Name Distance and Direction	Annual Mean Mean (F) Range See Note 2	Control Locations Mean (F) Range See Note 2	Number of Nonroutine Reported Measurements
GROSS BETA	529					
	2.00E-03	2.13E-02 (424 / 424) 9.63E-03 - 3.89E-02	PM2 SPRING CITY 7.0 MILES NW	2.20E-02 (53 / 53) 1.10E-02 - 3.89E-02	2.09E-02 (105 / 105) 1.02E-02 - 3.83E-02	
GAMMA SCAN (GELI)	140					
BE-7	2.00E-02	1.02E-01 (112 / 112) 4.36E-02 - 1.40E-01	PM3 10.4 MILES NNE	1.07E-01 (14 / 14) 8.15E-02 - 1.40E-01	1.06E-01 (28 / 28) 7.59E-02 - 1.36E-01	
BI-214	5.00E-03	1.54E-02 (64 / 112) 5.00E-03 - 7.07E-02	LM-4 WB 0.9 MILES SE	1.90E-02 (8 / 14) 5.00E-03 - 7.07E-02	1.52E-02 (16 / 28) 6.90E-03 - 3.85E-02	
K-40	4.00E-02	2.06E-01 (1 / 112) 2.06E-01 - 2.06E-01	PM4 7.6 MILES NE/ENE	2.06E-01 (1 / 14) 2.06E-01 - 2.06E-01	4.34E-02 (1 / 28) 4.34E-02 - 4.34E-02	
PB-212	5.00E-03	5.60E-03 (2 / 112) 5.10E-03 - 6.10E-03	PM4 7.6 MILES NE/ENE	6.10E-03 (1 / 14) 6.10E-03 - 6.10E-03	28 VALUES < LLD	
PB-214	5.00E-03	1.57E-02 (65 / 112) 5.00E-03 - 7.05E-02	LM2 0.5 MILES N	2.14E-02 (7 / 14) 7.00E-03 - 6.92E-02	1.47E-02 (18 / 28) 5.30E-03 - 3.95E-02	
TL-208	2.00E-03	3.00E-03 (1 / 112) 3.00E-03 - 3.00E-03	PM4 7.6 MILES NE/ENE	3.00E-03 (1 / 14) 3.00E-03 - 3.00E-03	2.30E-03 (1 / 28) 2.30E-03 - 2.30E-03	

TABLE H-3

Note: 1. Nominal Lower Level of Detection (LLD) as described in Table E - 1

Note: 2. Mean and Range based upon detectable measurements only. Fraction of detectable measurements at specified location is indicated in parentheses (F).

Tennessee Valley Authority
Environmental Radiological Monitoring and Instrumentation
Western Area Radiological Laboratory



RADIOACTIVITY IN CHARCOAL FILTER
PCI/M3 - 0.037 BQ/M3

Name of Facility: WATTS BAR NUCLEAR PLANT
Location of Facility: RHEA TENNESSEE

Docket Number: 50-390,391
Reporting Period: 2005

Type and Total Number of Analysis Performed	Lower Limit of Detection (LLD) See Note 1	Indicator Locations Mean (F) Range See Note 2	Location with Highest Name Distance and Direction	Annual Mean Mean (F) Range See Note 2	Control Locations Mean (F) Range See Note 2	Number of Nonroutine Reported Measurements
GAMMA SCAN (GELI)	529					
BI-214	5.00E-02	7.74E-02 (16 / 424) 5.12E-02 - 1.91E-01	LM3 1.9 MILES NNE	1.24E-01 (3 / 53) 5.86E-02 - 1.91E-01	5.76E-02 (4 / 105) 5.11E-02 - 6.64E-02	
I-131	3.00E-02	SEE NOTE 3				
K-40	3.00E-01	3.41E-01 (5 / 424) 3.01E-01 - 4.00E-01	LM2 0.5 MILES N	4.00E-01 (1 / 53) 4.00E-01 - 4.00E-01	105 VALUES < LLD	
PB-214	7.00E-02	1.03E-01 (12 / 424) 7.02E-02 - 2.32E-01	LM3 1.9 MILES NNE	1.46E-01 (3 / 53) 7.35E-02 - 2.32E-01	8.91E-02 (2 / 105) 7.40E-02 - 1.04E-01	

TABLE H-4

Note: 1. Nominal Lower Level of Detection (LLD) as described in Table E - 1

Note: 2. Mean and Range based upon detectable measurements only. Fraction of detectable measurements at specified location is indicated in parentheses (F).

Note: 3. The analysis of Charcoal Filters was performed by Gamma Spectroscopy. No I-131 was detected. The LLD for I-131 by Gamma Spectroscopy was 0.03 pCi/cubic meter.

Tennessee Valley Authority
 Environmental Radiological Monitoring and Instrumentation
 Western Area Radiological Laboratory



RADIOACTIVITY IN ATMOSPHERIC MOISTURE
 PCI/M3 - 0.037 BQ/M3

Name of Facility: WATTS BAR NUCLEAR PLANT
 Location of Facility: RHEA TENNESSEE

Docket Number: 50-390,391
 Reporting Period: 2005

Type and Total Number of Analysis Performed	Lower Limit of Detection (LLD) See Note 1	Indicator Locations Mean (F) Range See Note 2	Location with Highest Name Distance and Direction	Annual Mean Mean (F) Range See Note 2	Control Locations Mean (F) Range See Note 2	Number of Nonroutine Reported Measurements
TRITIUM	207 3.00E+00	3.60E+00 (9 / 155) 3.00E+00 - 4.86E+00	LM1 0.5 MILES SSW	3.78E+00 (3 / 26) 3.64E+00 - 3.97E+00	52 VALUES < LLD	

Note: 1. Nominal Lower Level of Detection (LLD) as described in Table E - 1

Note: 2. Mean and Range based upon detectable measurements only. Fraction of detectable measurements at specified location is indicated in parentheses (F).

Tennessee Valley Authority
Environmental Radiological Monitoring and Instrumentation
Western Area Radiological Laboratory



RADIOACTIVITY IN MILK
PCI/L - 0.037 BQ/L

Name of Facility: WATTS BAR NUCLEAR PLANT
Location of Facility: RHEA TENNESSEE

Docket Number: 50-390,391
Reporting Period: 2005

Type and Total Number of Analysis Performed	Lower Limit of Detection (LLD) See Note 1	Indicator Locations Mean (F) Range See Note 2	Location with Highest Name Distance and Direction	Annual Mean Mean (F) Range See Note 2	Control Locations Mean (F) Range See Note 2	Number of Nonroutine Reported Measurements
IODINE-131	130 4.00E-01	78 VALUES < LLD			52 VALUES < LLD	
GAMMA SCAN (GELI)	130					
BI-214	2.00E+01	3.11E+01 (3 / 78) 2.23E+01 - 3.99E+01	MULLINS FARM 3.7 M. ESE	3.99E+01 (1 / 26) 3.99E+01 - 3.99E+01	2.68E+01 (4 / 52) 2.08E+01 - 3.19E+01	
K-40	1.00E+02	1.33E+03 (78 / 78) 6.61E+02 - 1.56E+03	MULLINS FARM 3.7 M. ESE	1.36E+03 (26 / 26) 1.24E+03 - 1.53E+03	1.30E+03 (52 / 52) 1.18E+03 - 1.42E+03	
SR 89	20 3.50E+00	12 VALUES < LLD			8 VALUES < LLD	
SR 90	20 2.00E+00	2.46E+00 (1 / 12) 2.46E+00 - 2.46E+00	MULLINS FARM 3.7 M. ESE	2.46E+00 (1 / 4) 2.46E+00 - 2.46E+00	8 VALUES < LLD	

TABLE H-6

Note: 1. Nominal Lower Level of Detection (LLD) as described in Table E - 1

Note: 2. Mean and Range based upon detectable measurements only. Fraction of detectable measurements at specified location is indicated in parentheses (F).

Tennessee Valley Authority
Environmental Radiological Monitoring and Instrumentation
Western Area Radiological Laboratory



RADIOACTIVITY IN SOIL
PCI/GM - 0.037 BQ/G (DRY WEIGHT)

Name of Facility: WATTS BAR NUCLEAR PLANT
Location of Facility: RHEA TENNESSEE

Docket Number: 50-390,391
Reporting Period: 2005

Type and Total Number of Analysis Performed	Lower Limit of Detection (LLD) See Note 1	Indicator Locations Mean (F) Range See Note 2	Location with Highest Name Distance and Direction	Annual Mean Mean (F) Range See Note 2	Control Locations Mean (F) Range See Note 2	Number of Nonroutine Reported Measurements
GAMMA SCAN (GELI) 10						
AC-228	2.50E-01	1.19E+00 (8 / 8) 9.05E-01 - 1.45E+00	PM5 DECATUR 6.2 MILES S	1.45E+00 (1 / 1) 1.45E+00 - 1.45E+00	6.81E-01 (2 / 2) 6.16E-01 - 7.47E-01	
BI-212	4.50E-01	1.27E+00 (8 / 8) 9.53E-01 - 1.71E+00	LM-4 WB 0.9 MILES SE	1.71E+00 (1 / 1) 1.71E+00 - 1.71E+00	6.86E-01 (2 / 2) 6.22E-01 - 7.51E-01	
BI-214	1.50E-01	8.73E-01 (8 / 8) 6.84E-01 - 9.76E-01	LM2 0.5 MILES N	9.76E-01 (1 / 1) 9.76E-01 - 9.76E-01	7.43E-01 (2 / 2) 6.14E-01 - 8.71E-01	
CS-137	3.00E-02	1.91E-01 (8 / 8) 3.65E-02 - 6.28E-01	PM2 SPRING CITY 7.0 MILES NW	6.28E-01 (1 / 1) 6.28E-01 - 6.28E-01	3.41E-01 (2 / 2) 1.20E-01 - 5.62E-01	
K-40	7.50E-01	1.18E+01 (8 / 8) 3.71E+00 - 2.66E+01	LM-4 WB 0.9 MILES SE	2.66E+01 (1 / 1) 2.66E+01 - 2.66E+01	4.81E+00 (2 / 2) 4.75E+00 - 4.87E+00	
PB-212	1.00E-01	1.13E+00 (8 / 8) 8.58E-01 - 1.42E+00	PM5 DECATUR 6.2 MILES S	1.42E+00 (1 / 1) 1.42E+00 - 1.42E+00	7.29E-01 (2 / 2) 6.62E-01 - 7.97E-01	
PB-214	1.50E-01	9.43E-01 (8 / 8) 7.55E-01 - 1.04E+00	LM3 1.9 MILES NNE	1.04E+00 (1 / 1) 1.04E+00 - 1.04E+00	7.96E-01 (2 / 2) 6.65E-01 - 9.26E-01	
RA-224	7.50E-01	1.33E+00 (5 / 8) 9.56E-01 - 1.66E+00	PM5 DECATUR 6.2 MILES S	1.66E+00 (1 / 1) 1.66E+00 - 1.66E+00	7.87E-01 (1 / 2) 7.87E-01 - 7.87E-01	
RA-226	1.50E-01	8.73E-01 (8 / 8) 6.84E-01 - 9.76E-01	LM2 0.5 MILES N	9.76E-01 (1 / 1) 9.76E-01 - 9.76E-01	7.43E-01 (2 / 2) 6.14E-01 - 8.71E-01	
TL-208	6.00E-02	3.71E-01 (8 / 8) 2.99E-01 - 4.76E-01	PM5 DECATUR 6.2 MILES S	4.76E-01 (1 / 1) 4.76E-01 - 4.76E-01	2.30E-01 (2 / 2) 2.08E-01 - 2.51E-01	
SR 89	10 1.60E+00	8 VALUES < LLD			2 VALUES < LLD	
SR 90	10 4.00E-01	8 VALUES < LLD			2 VALUES < LLD	

Note: 1. Nominal Lower Level of Detection (LLD) as described in Table E - 1

Note: 2. Mean and Range based upon detectable measurements only. Fraction of detectable measurements at specified location is indicated in parentheses (F).

TABLE H-7

Tennessee Valley Authority
 Environmental Radiological Monitoring and Instrumentation
 Western Area Radiological Laboratory



RADIOACTIVITY IN APPLES
 PCI/KG - 0.037 BQ/KG (WET WT)

Name of Facility: WATTS BAR NUCLEAR PLANT
 Location of Facility: RHEA TENNESSEE

Docket Number: 50-390,391
 Reporting Period: 2005

Type and Total Number of Analysis Performed	Lower Limit of Detection (LLD) See Note 1	Indicator Locations Mean (F) Range See Note 2	Location with Highest Name Distance and Direction	Annual Mean Mean (F) Range See Note 2	Control Locations Mean (F) Range See Note 2	Number of Nonroutine Reported Measurements
GAMMA SCAN (GELI) 2 K-40	2.50E+02	1.37E+03 (1 / 1) 1.37E+03 - 1.37E+03	NORTON FARM 4.1 MILES ESE	1.37E+03 (1 / 1) 1.37E+03 - 1.37E+03	1.07E+03 (1 / 1) 1.07E+03 - 1.07E+03	

Note: 1. Nominal Lower Level of Detection (LLD) as described in Table E - 1

Note: 2. Mean and Range based upon detectable measurements only. Fraction of detectable measurements at specified location is indicated in parentheses (F).

Tennessee Valley Authority
 Environmental Radiological Monitoring and Instrumentation
 Western Area Radiological Laboratory



RADIOACTIVITY IN CABBAGE
 PCI/KG - 0.037 BQ/KG (WET WT)

Name of Facility: WATTS BAR NUCLEAR PLANT
 Location of Facility: RHEA TENNESSEE

Docket Number: 50-390,391
 Reporting Period: 2005

Type and Total Number of Analysis Performed	Lower Limit of Detection (LLD) See Note 1	Indicator Locations Mean (F) Range See Note 2	Location with Highest Name Distance and Direction	Annual Mean Mean (F) Range See Note 2	Control Locations Mean (F) Range See Note 2	Number of Nonroutine Reported Measurements
GAMMA SCAN (GELI) K-40	2 2.50E+02	1.62E+03 (1 / 1) 1.62E+03 - 1.62E+03	MULLINS FARM 3.7 M. ESE	1.62E+03 (1 / 1) 1.62E+03 - 1.62E+03	1.89E+03 (1 / 1) 1.89E+03 - 1.89E+03	

Note: 1. Nominal Lower Level of Detection (LLD) as described in Table E - 1

Note: 2. Mean and Range based upon detectable measurements only. Fraction of detectable measurements at specified location is indicated in parentheses (F).

Tennessee Valley Authority
 Environmental Radiological Monitoring and Instrumentation
 Western Area Radiological Laboratory



RADIOACTIVITY IN CORN
 PCI/KG - 0.037 BQ/KG (WET WT)

Name of Facility: WATTS BAR NUCLEAR PLANT
 Location of Facility: RHEA TENNESSEE

Docket Number: 50-390,391
 Reporting Period: 2005

Type and Total Number of Analysis Performed	Lower Limit of Detection (LLD) See Note 1	Indicator Locations Mean (F) Range See Note 2	Location with Highest Name Distance and Direction	Annual Mean Mean (F) Range See Note 2	Control Locations Mean (F) Range See Note 2	Number of Nonroutine Reported Measurements
GAMMA SCAN (GELI) K-40	2 2.50E+02	1.57E+03 (1 / 1) 1.57E+03 - 1.57E+03	NORTON FARM 4.1 MILES ESE	1.57E+03 (1 / 1) 1.57E+03 - 1.57E+03	2.12E+03 (1 / 1) 2.12E+03 - 2.12E+03	

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TABLE H-10

Note: 1. Nominal Lower Level of Detection (LLD) as described in Table E - 1

Note: 2. Mean and Range based upon detectable measurements only. Fraction of detectable measurements at specified location is indicated in parentheses (F).

Tennessee Valley Authority
Environmental Radiological Monitoring and Instrumentation
Western Area Radiological Laboratory



RADIOACTIVITY IN GREEN BEANS
PCI/KG - 0.037 BQ/KG (WET WT)

Name of Facility: WATTS BAR NUCLEAR PLANT
Location of Facility: RHEA TENNESSEE

Docket Number: 50-390,391
Reporting Period: 2005

Type and Total Number of Analysis Performed	Lower Limit of Detection (LLD) See Note 1	Indicator Locations Mean (F) Range See Note 2	Location with Highest Name Distance and Direction	Annual Mean Mean (F) Range See Note 2	Control Locations Mean (F) Range See Note 2	Number of Nonroutine Reported Measurements
GAMMA SCAN (GELI) K-40	2 2.50E+02	3.74E+03 (1 / 1) 3.74E+03 - 3.74E+03	MULLINS FARM 3.7 M. ESE	3.74E+03 (1 / 1) 3.74E+03 - 3.74E+03	2.81E+03 (1 / 1) 2.81E+03 - 2.81E+03	

Note: 1. Nominal Lower Level of Detection (LLD) as described in Table E - 1

Note: 2. Mean and Range based upon detectable measurements only. Fraction of detectable measurements at specified location is indicated in parentheses (F).

Tennessee Valley Authority
Environmental Radiological Monitoring and Instrumentation
Western Area Radiological Laboratory



RADIOACTIVITY IN TOMATOES
PCI/KG - 0.037 BQ/KG (WET WT)

Name of Facility: WATTS BAR NUCLEAR PLANT
Location of Facility: RHEA **TENNESSEE**

Docket Number: 50-390,391
Reporting Period: 2005

Type and Total Number of Analysis Performed	Lower Limit of Detection (LLD) See Note 1	Indicator Locations Mean (F) Range See Note 2	Location with Highest Name Distance and Direction	Annual Mean Mean (F) Range See Note 2	Control Locations Mean (F) Range See Note 2	Number of Nonroutine Reported Measurements
GAMMA SCAN (GELI) 2						
K-40	2.50E+02	2.21E+03 (1 / 1) 2.21E+03 - 2.21E+03	NORTON FARM 4.1 MILES ESE	2.21E+03 (1 / 1) 2.21E+03 - 2.21E+03	1.78E+03 (1 / 1) 1.78E+03 - 1.78E+03	

Note: 1. Nominal Lower Level of Detection (LLD) as described in Table E - 1

Note: 2. Mean and Range based upon detectable measurements only. Fraction of detectable measurements at specified location is indicated in parentheses (F).

Tennessee Valley Authority
Environmental Radiological Monitoring and Instrumentation
Western Area Radiological Laboratory



RADIOACTIVITY IN SURFACE WATER(Total)
PCI/L - 0.037 BQ/L

Name of Facility: **WATTS BAR NUCLEAR PLANT**
Location of Facility: **RHEA TENNESSEE**

Docket Number: **50-390,391**
Reporting Period: **2005**

Type and Total Number of Analysis Performed	Lower Limit of Detection (LLD) See Note 1	Indicator Locations Mean (F) Range See Note 2	Location with Highest Name Distance and Direction	Annual Mean Mean (F) Range See Note 2	Control Locations Mean (F) Range See Note 2	Number of Nonroutine Reported Measurements
GROSS BETA	39 1.90E+00	3.37E+00 (20 / 26) 1.90E+00 - 9.45E+00	TRM 523.1	4.16E+00 (9 / 13) 2.17E+00 - 9.45E+00	2.53E+00 (10 / 13) 2.07E+00 - 4.10E+00	
GAMMA SCAN (GELI)	39					
BI-214	2.00E+01	3.51E+01 (1 / 26) 3.51E+01 - 3.51E+01	TRM 517.9	3.51E+01 (1 / 13) 3.51E+01 - 3.51E+01	2.68E+01 (1 / 13) 2.68E+01 - 2.68E+01	
PB-214	2.00E+01	2.54E+01 (1 / 26) 2.54E+01 - 2.54E+01	TRM 517.9	2.54E+01 (1 / 13) 2.54E+01 - 2.54E+01	13 VALUES < LLD	
TRITIUM	39 3.00E+02	26 VALUES < LLD	TRM 517.9		4.19E+02 (1 / 13) 4.19E+02 - 4.19E+02	

TABLE H-13

Note: 1. Nominal Lower Level of Detection (LLD) as described in Table E - 1

Note: 2. Mean and Range based upon detectable measurements only. Fraction of detectable measurements at specified location is indicated in parentheses (F).

Tennessee Valley Authority
Environmental Radiological Monitoring and Instrumentation
Western Area Radiological Laboratory



RADIOACTIVITY IN PUBLIC WATER(Total)
PCI/L - 0.037 BQ/L

Name of Facility: WATTS BAR NUCLEAR PLANT
Location of Facility: RHEA TENNESSEE

Docket Number: 50-390,391
Reporting Period: 2005

Type and Total Number of Analysis Performed	Lower Limit of Detection (LLD) See Note 1	Indicator Locations Mean (F) Range See Note 2	Location with Highest Name Distance and Direction	Annual Mean Mean (F) Range See Note 2	Control Locations Mean (F) Range See Note 2	Number of Nonroutine Reported Measurements
GROSS BETA	39 1.90E+00	2.53E+00 (14 / 26) 1.91E+00 - 3.29E+00	RM-2 DAYTON TN 17.8 MILES NNE	2.56E+00 (5 / 13) 2.00E+00 - 3.21E+00	2.53E+00 (10 / 13) 2.07E+00 - 4.10E+00	
GAMMA SCAN (GELI) BI-214	39 2.00E+01	26 VALUES < LLD	CF INDUSTRIES TRM 473.0	13 VALUES < LLD	2.68E+01 (1 / 13) 2.68E+01 - 2.68E+01	
TRITIUM	47 3.00E+02	34 VALUES < LLD	CF INDUSTRIES TRM 473.0		4.19E+02 (1 / 13) 4.19E+02 - 4.19E+02	

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TABLE H-14

Note: 1. Nominal Lower Level of Detection (LLD) as described in Table E - 1

Note: 2. Mean and Range based upon detectable measurements only. Fraction of detectable measurements at specified location is indicated in parentheses (F).

Tennessee Valley Authority
Environmental Radiological Monitoring and Instrumentation
Western Area Radiological Laboratory



RADIOACTIVITY IN WELL WATER(Total)
PCI/L - 0.037 BQ/L

Name of Facility: WATTS BAR NUCLEAR PLANT
Location of Facility: RHEA TENNESSEE

Docket Number: 50-390,391
Reporting Period: 2005

Type and Total Number of Analysis Performed	Lower Limit of Detection (LLD) See Note 1	Indicator Locations Mean (F) Range See Note 2	Location with Highest Name Distance and Direction	Annual Mean Mean (F) Range See Note 2	Control Locations Mean (F) Range See Note 2	Number of Nonroutine Reported Measurements
GROSS BETA	96 1.90E+00	4.31E+00 (56 / 68) 1.96E+00 - 1.19E+01	WBN MW-B 0.45 MILES SSE)	6.62E+00 (14 / 14) 2.90E+00 - 1.19E+01	2.71E+00 (6 / 28) 2.02E+00 - 3.24E+00	
GAMMA SCAN (GELI)	96					
BI-214	2.00E+01	2.86E+01 (6 / 68) 2.00E+01 - 5.38E+01	WBN MW-A 0.58 MILES SSE)	3.20E+01 (4 / 14) 2.00E+01 - 5.38E+01	1.64E+02 (12 / 28) 5.09E+01 - 3.14E+02	
PB-214	2.00E+01	3.12E+01 (4 / 68) 2.39E+01 - 4.47E+01	WBN MW-A 0.58 MILES SSE)	3.32E+01 (3 / 14) 2.39E+01 - 4.47E+01	1.52E+02 (13 / 28) 2.26E+01 - 2.95E+02	
TRITIUM	96 3.00E+02	4.29E+04 (43 / 68) 3.49E+02 - 5.61E+05	WBN MW-D 0.40 MILES SSE)	9.93E+04 (13 / 13) 4.69E+03 - 5.61E+05	28 VALUES < LLD	

TABLE H-15

Note: 1. Nominal Lower Level of Detection (LLD) as described in Table E - 1

Note: 2. Mean and Range based upon detectable measurements only. Fraction of detectable measurements at specified location is indicated in parentheses (F).

Tennessee Valley Authority
Environmental Radiological Monitoring and Instrumentation
Western Area Radiological Laboratory



RADIOACTIVITY IN COMMERCIAL FISH
PCI/GM - 0.037 BQ/G (DRY WEIGHT)

Name of Facility: WATTS BAR NUCLEAR PLANT
Location of Facility: RHEA TENNESSEE

Docket Number: 50-390,391
Reporting Period: 2005

Type and Total Number of Analysis Performed	Lower Limit of Detection (LLD) See Note 1	Indicator Locations Mean (F) Range See Note 2	Location with Highest Name Distance and Direction	Annual Mean Mean (F) Range See Note 2	Control Locations Mean (F) Range See Note 2	Number of Nonroutine Reported Measurements
GAMMA SCAN (GELI)	6					
CS-137	3.00E-02	5.38E-02 (1 / 4) 5.38E-02 - 5.38E-02	DOWNSTREAM STATION 1 DOWNSTREAM	5.38E-02 (1 / 2) 5.38E-02 - 5.38E-02	1.04E-01 (1 / 2) 1.04E-01 - 1.04E-01	
K-40	4.00E-01	1.05E+01 (4 / 4) 9.22E+00 - 1.12E+01	DOWNSTREAM STATION 1 DOWNSTREAM	1.09E+01 (2 / 2) 1.06E+01 - 1.12E+01	1.02E+01 (2 / 2) 8.67E+00 - 1.18E+01	

Note: 1. Nominal Lower Level of Detection (LLD) as described in Table E - 1

Note: 2. Mean and Range based upon detectable measurements only. Fraction of detectable measurements at specified location is indicated in parentheses (F).

RADIOACTIVITY IN GAME FISH
PCI/GM - 0.037 BQ/G (DRY WEIGHT)

Name of Facility: WATTS BAR NUCLEAR PLANT
Location of Facility: RHEA TENNESSEE

Docket Number: 50-390,391
Reporting Period: 2005

Type and Total Number of Analysis Performed	Lower Limit of Detection (LLD) See Note 1	Indicator Locations Mean (F) Range See Note 2	Location with Highest Name Distance and Direction	Annual Mean Mean (F) Range See Note 2	Control Locations Mean (F) Range See Note 2	Number of Nonroutine Reported Measurements
GAMMA SCAN (GELI)	6					
CS-137	3.00E-02	3.85E-02 (3 / 4) 3.35E-02 - 4.64E-02	DOWNSTREAM STATION 1 DOWNSTREAM	4.00E-02 (2 / 2) 3.35E-02 - 4.64E-02	6.76E-02 (2 / 2) 5.94E-02 - 7.57E-02	
K-40	4.00E-01	1.46E+01 (4 / 4) 1.20E+01 - 1.62E+01	CHICKAMAUGA RES TRM 471-530	1.59E+01 (2 / 2) 1.56E+01 - 1.62E+01	1.33E+01 (2 / 2) 1.23E+01 - 1.44E+01	

TABLE H-17

Note: 1. Nominal Lower Level of Detection (LLD) as described in Table E - 1

Note: 2. Mean and Range based upon detectable measurements only. Fraction of detectable measurements at specified location is indicated in parentheses (F).

Tennessee Valley Authority
Environmental Radiological Monitoring and Instrumentation
Western Area Radiological Laboratory



RADIOACTIVITY IN SHORELINE SEDIMENT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)

Name of Facility: WATTS BAR NUCLEAR PLANT
Location of Facility: RHEA TENNESSEE

Docket Number: 50-390,391
Reporting Period: 2005

Type and Total Number of Analysis Performed	Lower Limit of Detection (LLD) See Note 1	Indicator Locations Mean (F) Range See Note 2	Location with Highest Name Distance and Direction	Annual Mean Mean (F) Range See Note 2	Control Locations Mean (F) Range See Note 2	Number of Nonroutine Reported Measurements
GAMMA SCAN (GELI)	4					
AC-228	2.50E-01	1.47E+00 (2 / 2) 1.45E+00 - 1.50E+00	COTTON PORT MARINA TRM 513	1.47E+00 (2 / 2) 1.45E+00 - 1.50E+00	2 VALUES < LLD	
BI-212	4.50E-01	1.64E+00 (2 / 2) 1.56E+00 - 1.71E+00	COTTON PORT MARINA TRM 513	1.64E+00 (2 / 2) 1.56E+00 - 1.71E+00	2 VALUES < LLD	
BI-214	1.50E-01	6.77E-01 (2 / 2) 6.10E-01 - 7.44E-01	COTTON PORT MARINA TRM 513	6.77E-01 (2 / 2) 6.10E-01 - 7.44E-01	2 VALUES < LLD	
CS-137	3.00E-02	7.14E-02 (2 / 2) 4.40E-02 - 9.88E-02	COTTON PORT MARINA TRM 513	7.14E-02 (2 / 2) 4.40E-02 - 9.88E-02	2 VALUES < LLD	
K-40	7.50E-01	3.16E+01 (2 / 2) 3.07E+01 - 3.26E+01	COTTON PORT MARINA TRM 513	3.16E+01 (2 / 2) 3.07E+01 - 3.26E+01	2 VALUES < LLD	
PB-212	1.00E-01	1.42E+00 (2 / 2) 1.40E+00 - 1.45E+00	COTTON PORT MARINA TRM 513	1.42E+00 (2 / 2) 1.40E+00 - 1.45E+00	2 VALUES < LLD	
PB-214	1.50E-01	7.31E-01 (2 / 2) 6.39E-01 - 8.24E-01	COTTON PORT MARINA TRM 513	7.31E-01 (2 / 2) 6.39E-01 - 8.24E-01	2 VALUES < LLD	
RA-224	7.50E-01	1.65E+00 (1 / 2) 1.65E+00 - 1.65E+00	COTTON PORT MARINA TRM 513	1.65E+00 (1 / 2) 1.65E+00 - 1.65E+00	2 VALUES < LLD	
RA-226	1.50E-01	6.77E-01 (2 / 2) 6.10E-01 - 7.44E-01	COTTON PORT MARINA TRM 513	6.77E-01 (2 / 2) 6.10E-01 - 7.44E-01	2 VALUES < LLD	
TL-208	6.00E-02	4.74E-01 (2 / 2) 4.52E-01 - 4.95E-01	COTTON PORT MARINA TRM 513	4.74E-01 (2 / 2) 4.52E-01 - 4.95E-01	2 VALUES < LLD	

TABLE H-18

Note: 1. Nominal Lower Level of Detection (LLD) as described in Table E - 1

Note: 2. Mean and Range based upon detectable measurements only. Fraction of detectable measurements at specified location is indicated in parentheses (F).

Tennessee Valley Authority
Environmental Radiological Monitoring and Instrumentation
Western Area Radiological Laboratory



RADIOACTIVITY IN POND SEDIMENT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)

Name of Facility: WATTS BAR NUCLEAR PLANT
Location of Facility: RHEA TENNESSEE

Docket Number: 50-390,391
Reporting Period: 2005

GAMMA SCAN (GELI)

Type and Total Number of Analysis Performed	Lower Limit of Detection (LLD) See Note 1	Indicator Locations Mean (F) Range See Note 2	Location with Highest Name Distance and Direction	Annual Mean Mean (F) Range See Note 2	Control Locations Mean (F) Range See Note 2	Number of Nonroutine Reported Measurements
AC-228	2.50E-01	1.00E+00 (5 / 5) 8.18E-01 - 1.18E+00	YP-13 YARD POND	1.18E+00 (1 / 1) 1.18E+00 - 1.18E+00	VALUES < LLD	
BE-7	2.50E-01	4.41E-01 (3 / 5) 3.92E-01 - 4.95E-01	YP-16 YARD POND	4.95E-01 (1 / 1) 4.95E-01 - 4.95E-01	VALUES < LLD	
BI-212	4.50E-01	1.07E+00 (5 / 5) 8.40E-01 - 1.37E+00	YP-13 YARD POND	1.37E+00 (1 / 1) 1.37E+00 - 1.37E+00	VALUES < LLD	
BI-214	1.50E-01	7.53E-01 (5 / 5) 6.56E-01 - 8.57E-01	YP-13 YARD POND	8.57E-01 (1 / 1) 8.57E-01 - 8.57E-01	VALUES < LLD	
CO-58	3.00E-02	3.94E-02 (1 / 5) 3.94E-02 - 3.94E-02	YP-17 YARD POND	3.94E-02 (1 / 1) 3.94E-02 - 3.94E-02	VALUES < LLD	
CO-60	3.00E-02	7.90E-02 (4 / 5) 4.32E-02 - 1.57E-01	YP-17 YARD POND	1.57E-01 (1 / 1) 1.57E-01 - 1.57E-01	VALUES < LLD	
CS-137	3.00E-02	1.03E-01 (5 / 5) 5.64E-02 - 1.94E-01	YP-13 YARD POND	1.94E-01 (1 / 1) 1.94E-01 - 1.94E-01	VALUES < LLD	
K-40	7.50E-01	1.34E+01 (5 / 5) 1.11E+01 - 1.59E+01	YP-13 YARD POND	1.59E+01 (1 / 1) 1.59E+01 - 1.59E+01	VALUES < LLD	
PB-212	1.00E-01	1.03E+00 (5 / 5) 8.73E-01 - 1.20E+00	YP-13 YARD POND	1.20E+00 (1 / 1) 1.20E+00 - 1.20E+00	VALUES < LLD	
PB-214	1.50E-01	8.25E-01 (5 / 5) 7.16E-01 - 9.38E-01	YP-13 YARD POND	9.38E-01 (1 / 1) 9.38E-01 - 9.38E-01	VALUES < LLD	
RA-224	7.50E-01	9.40E-01 (4 / 5) 8.53E-01 - 1.06E+00	YP-17 YARD POND	1.06E+00 (1 / 1) 1.06E+00 - 1.06E+00	VALUES < LLD	
SB-125	-1.00E+00	2.08E-01 (1 / 5) 2.08E-01 - 2.08E-01	YP-17 YARD POND	2.08E-01 (1 / 1) 2.08E-01 - 2.08E-01	VALUES < LLD	
TL-208	6.00E-02	3.32E-01 (5 / 5) 2.66E-01 - 4.02E-01	YP-13 YARD POND	4.02E-01 (1 / 1) 4.02E-01 - 4.02E-01	VALUES < LLD	

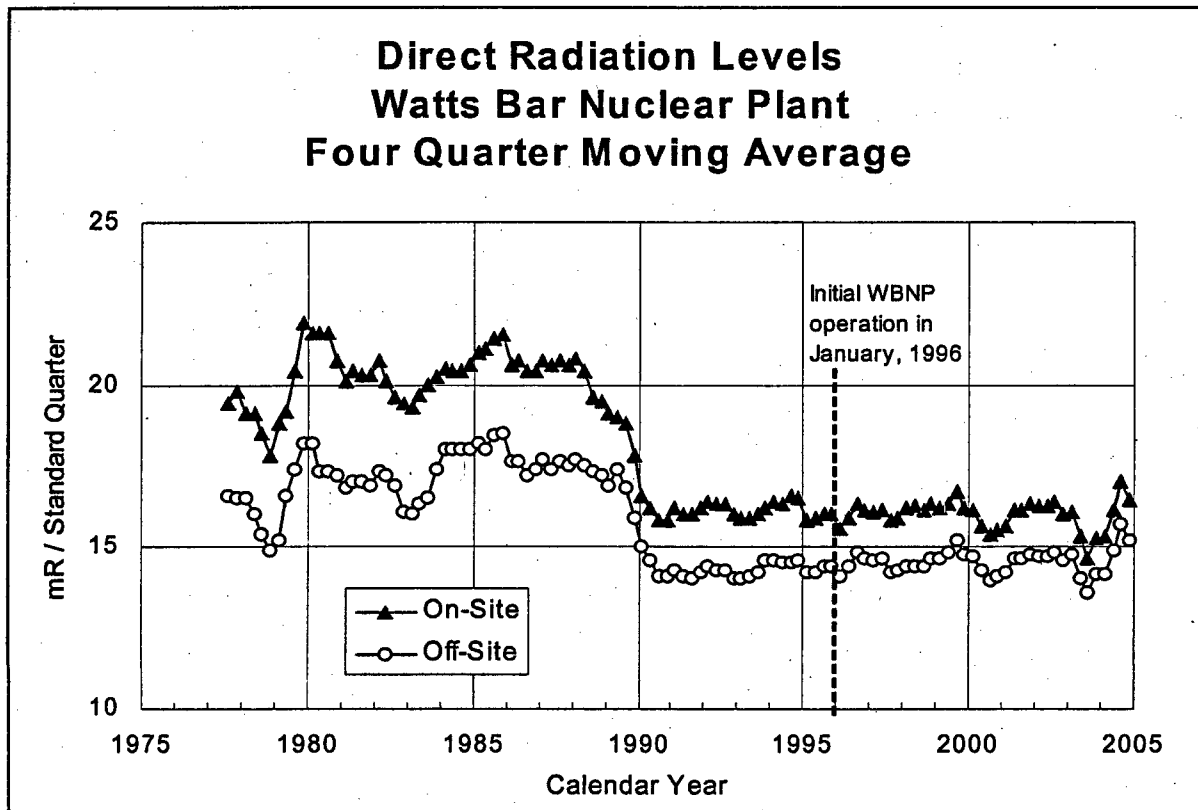
TABLE H-19

Note: 1. Nominal Lower Level of Detection (LLD) as described in Table E - 1

Note: 2. Mean and Range based upon detectable measurements only. Fraction of detectable measurements at specified location is indicated in parentheses (F).

Figure H-1

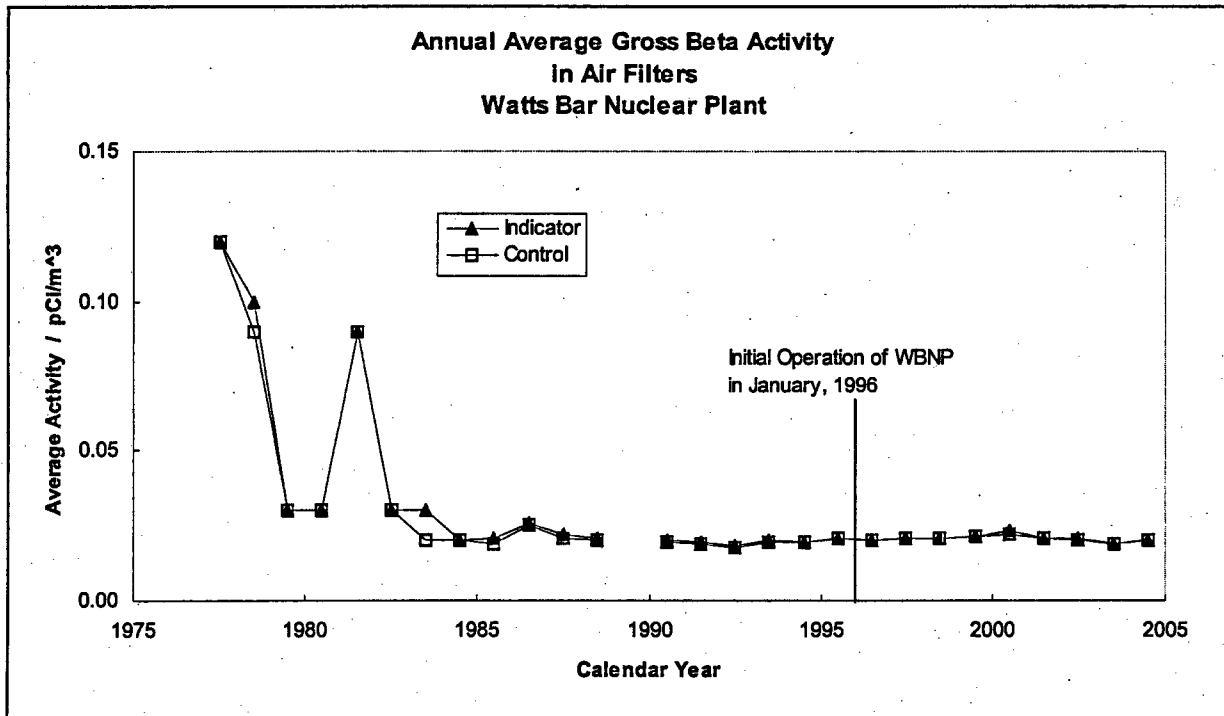
Direct Radiation



Thermoluminescent dosimeters are processed quarterly. This chart shows trends in the average measurement for all dosimeters grouped as "on-site" or "off-site". The data from preoperational phase, prior to 1996, show the same trend of "on-site" measurements higher than "off-site" measurements that is observed in current data indicating that the slightly higher "on-site" direct radiation levels are not related to plant operations.

Figure H-2

Radioactivity in Air Filters



To more clearly show trends developed since the end of atmospheric weapons testing, the data beginning with the resumption of the monitoring program in 1990 is shown in greater detail.

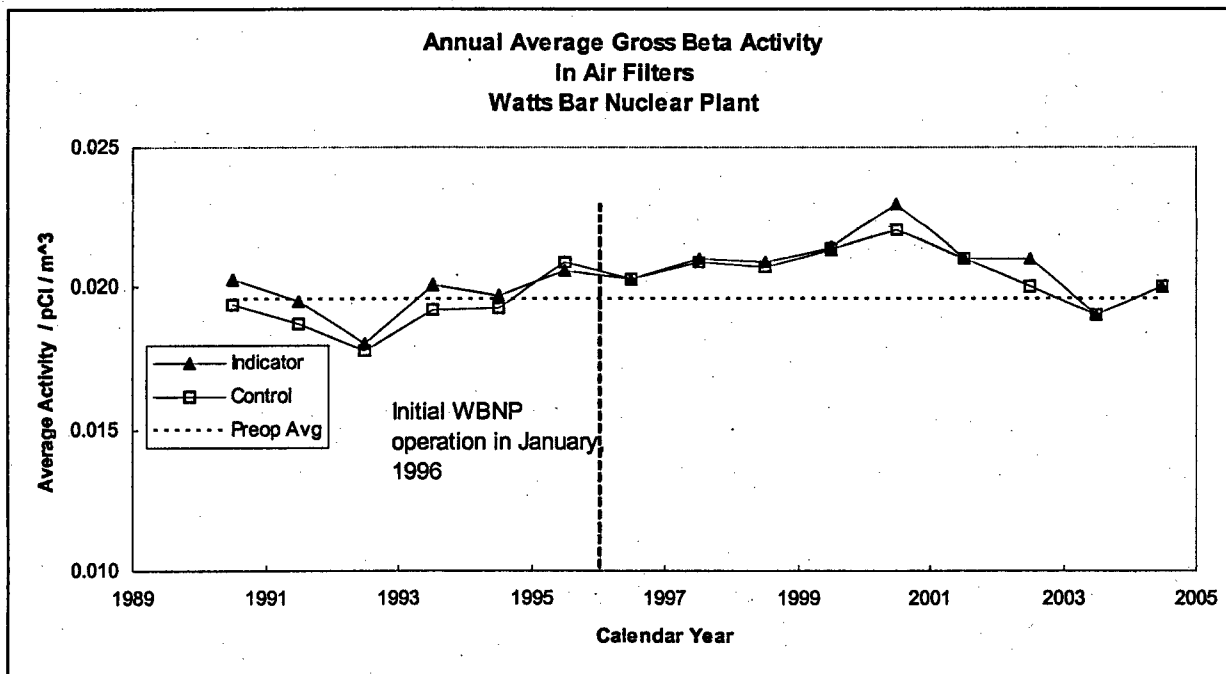
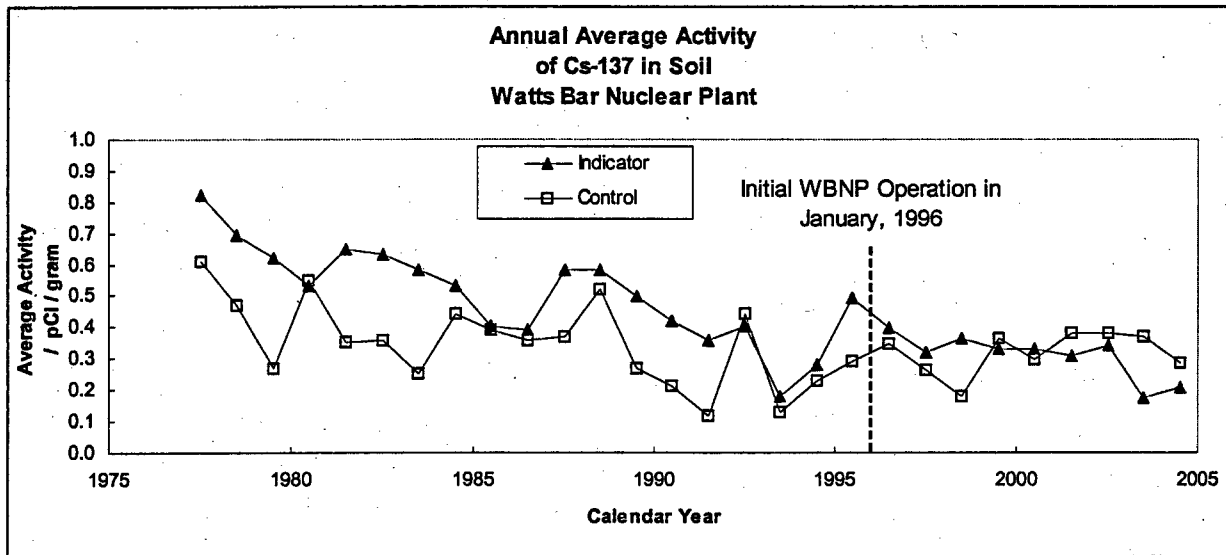


Figure H-3

Cs-137 in Soil

Cesium-137 was produced by past nuclear weapons testing and is present in almost every environmental sample exposed to the atmosphere. The "control" and "indicator" locations have generally trended downward with year-to-year variation, since the beginning of the monitoring program from the Watts Bar site.



In almost every year, the "indicator" locations have shown greater activity of Cs-137 than the "control" locations. This trend, with its preoperational average is shown below.

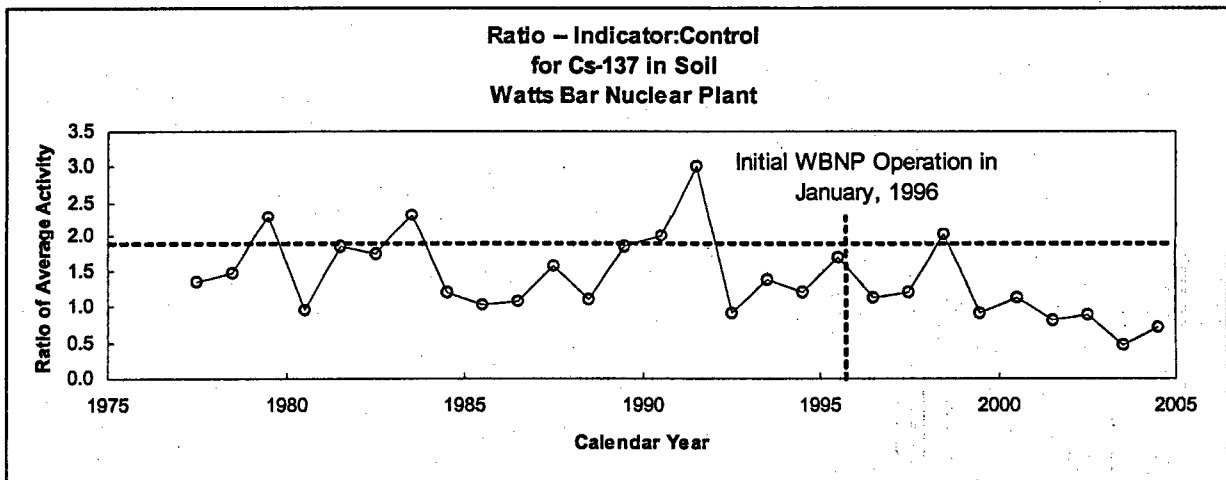


Figure H-4

Gross Beta Activity in Surface and Drinking Water

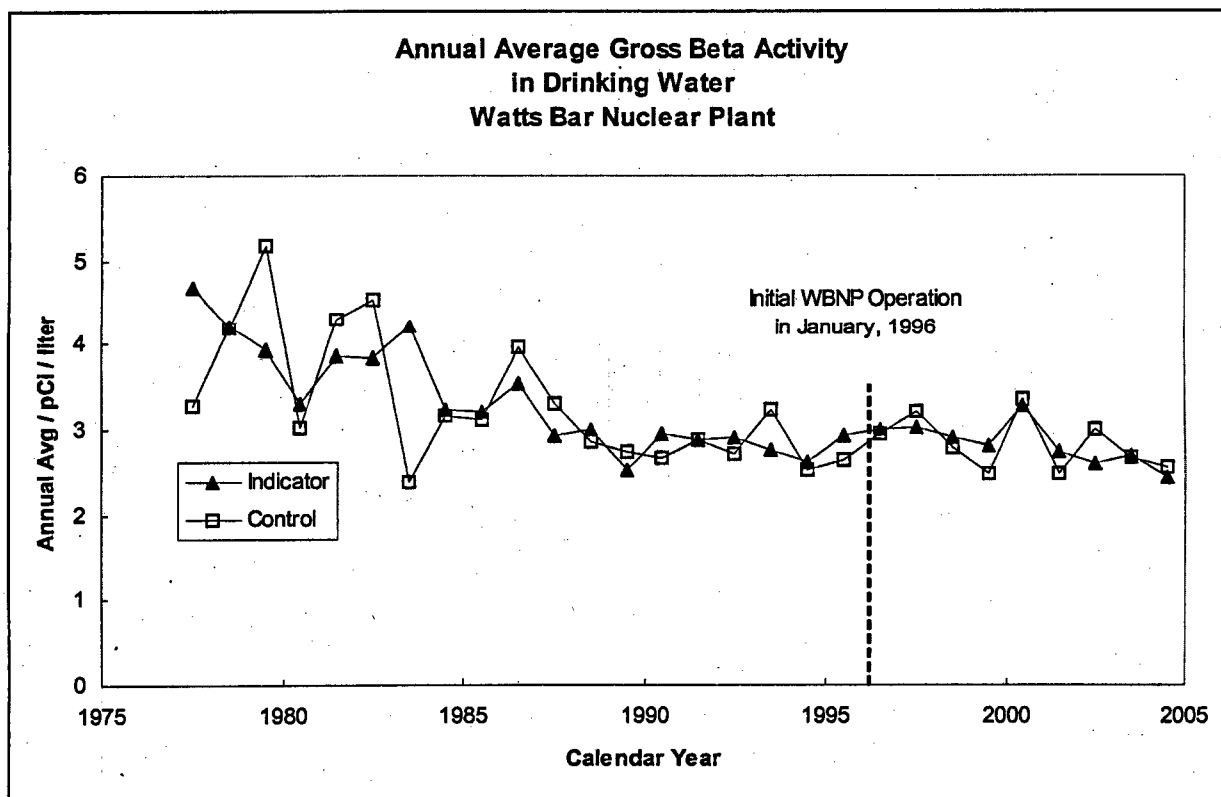
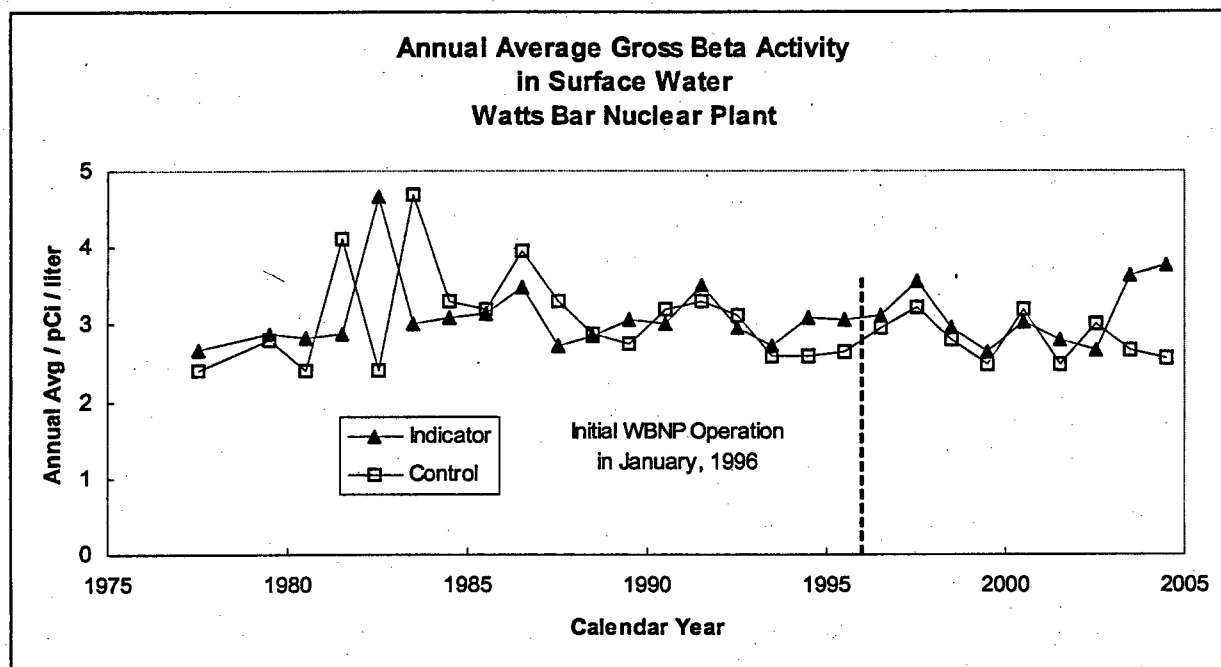


Figure H-5

Radioactivity in Fish

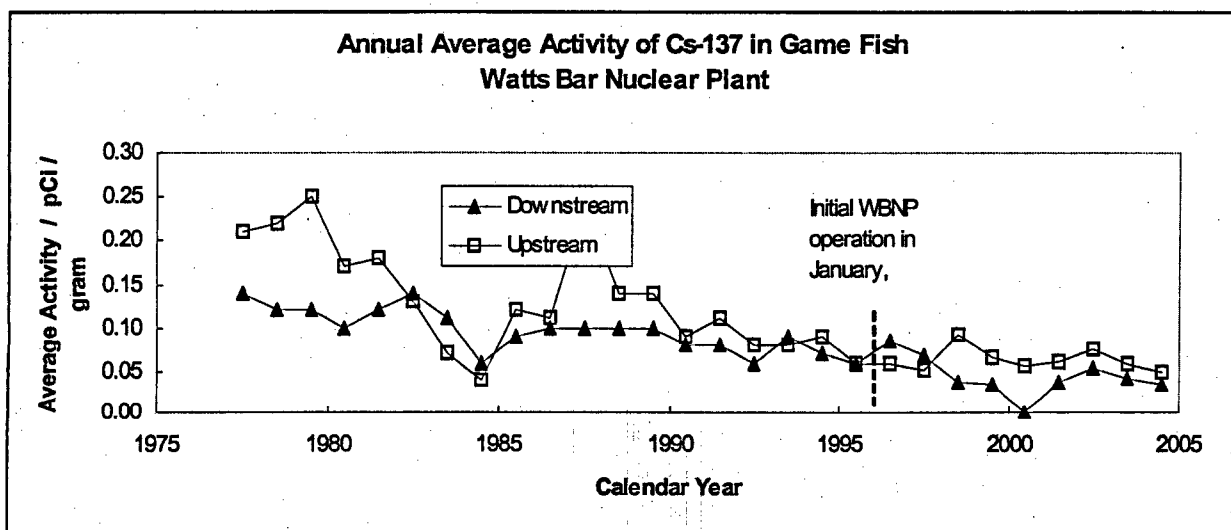
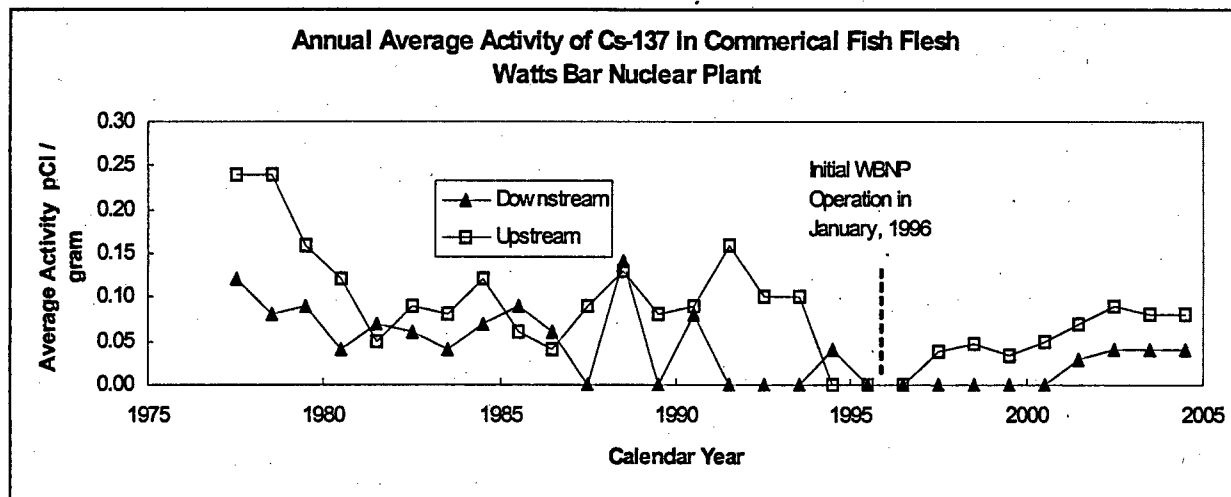
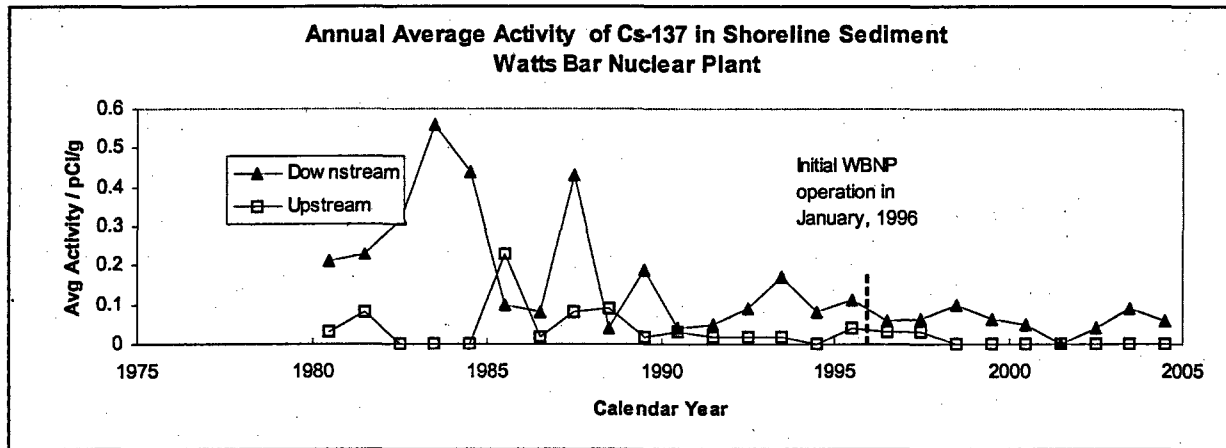


Figure H-6

Radioactivity in Shoreline Sediment

The Cs-137 present in the shoreline sediments of the Tennessee River system was produced both by testing of nuclear weapons and by related nuclear operations in the upper reaches of the Tennessee River watershed. The amounts of Cs-137 have declined significantly during the course of monitoring for the Watts Bar site, so much so that not all samples contain detectable levels.



**Annual
Radiological
Environmental
Operating Report**

**Watts Bar
Nuclear Plant
Data Supplement
2005**



**ANNUAL RADIOLOGICAL ENVIRONMENTAL OPERATING REPORT
WATTS BAR NUCLEAR PLANT
DATA SUPPLEMENT**

2005

TENNESSEE VALLEY AUTHORITY

April 2006

RADIOLOGICAL ENVIRONMENTAL MONITORING DATA
WATTS BAR NUCLEAR PLANT

2005

This supplement to the Watts Bar Nuclear Plant Annual Radiological Environmental Operating Report (AREOR) presents the results of individual sample analyses and radiation measurements. The results are ordered by sample type then by sample location and analysis type. If no gamma activity was detected in a sample, the notation 'NO ACTIVITY DETECTED' is entered. The sample locations are described in Appendix A to the AREOR.

These tables include all results, whether above or below the Lower Limit of Detection. Negative values are an artifact of counting statistics and do not imply a negative activity.

The uncertainty reported for specific analyses such as gross beta, Sr-89 and 90 and tritium is the one sigma counting error. For gamma analyses, the uncertainty reported is the one-sigma error calculated by the gamma spectral analysis software.

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	RM-2 DAYTON TN	15.0 MILES SW						
			GROSS BETA					
					.0215	.0023	12/28/04	520046
					.0221	.0025	01/04/05	520155
					.0138	.0016	01/11/05	520265
					.0236	.0026	01/18/05	520365
					.0268	.0029	01/25/05	520536
					.0157	.0018	02/01/05	520682
					.0206	.0023	02/08/05	520799
					.0218	.0024	02/15/05	520891
					.0185	.0021	02/22/05	521034
					.0219	.0024	03/01/05	521185
					.0196	.0022	03/08/05	521310
					.0138	.0016	03/15/05	521414
					.0166	.0019	03/22/05	521612
					.0126	.0015	03/29/05	521740
					.0161	.0018	04/05/05	521854
					.0132	.0016	04/12/05	521952
					.0150	.0017	04/19/05	522094
					.0202	.0022	04/26/05	522306
					.0132	.0016	05/03/05	522451
					.0207	.0023	05/10/05	522551
					.0176	.0020	05/17/05	522714
					.0207	.0023	05/24/05	522859
					.0135	.0016	05/31/05	522977
					.0146	.0017	06/07/05	523080
					.0102	.0013	06/14/05	523233
					.0162	.0018	06/21/05	523373

Tennessee Valley Authority

Table 1
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WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	RM-2 DAYTON TN	15.0 MILES SW						
			GROSS BETA					
					.0247	.0027	06/28/05	523520
					.0177	.0020	07/05/05	523635
					.0144	.0017	07/12/05	523802
					.0160	.0018	07/19/05	523966
					.0231	.0025	08/02/05	524257
					.0258	.0028	08/09/05	524421
					.0220	.0024	08/16/05	524545
					.0224	.0025	08/23/05	524685
					.0344	.0036	08/30/05	524790
					.0266	.0029	09/06/05	524949
					.0383	.0040	09/13/05	525064
					.0297	.0032	09/20/05	525186
					.0246	.0027	09/27/05	525306
					.0256	.0028	10/04/05	525455
					.0135	.0016	10/11/05	525566
					.0280	.0030	10/18/05	525683
					.0367	.0039	10/25/05	525823
					.0216	.0024	11/01/05	526005
					.0291	.0032	11/07/05	526122
					.0241	.0026	11/15/05	526242
					.0285	.0031	11/21/05	526370
					.0237	.0026	11/29/05	526552
					.0267	.0029	12/06/05	526696
					.0344	.0036	12/13/05	526813
					.0226	.0025	12/19/05	526925
					.0291	.0031	12/27/05	527102

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	RM-2 DAYTON TN	15.0 MILES SW						
			GAMMA SCAN (GELI)					
				AC-228	.0034	.0020	08/30/05	524866
					.0001	.0013	09/27/05	525381
					.0037	.0014	12/19/05	527002
					.0075	.0072	12/27/05	527102
				BE-7				
					.1156	.0084	01/18/05	520440
					.0916	.0066	02/15/05	520966
					.0954	.0083	03/15/05	521490
					.0955	.0081	04/12/05	522027
					.1212	.0086	05/10/05	522625
					.1080	.0100	06/07/05	523156
					.1051	.0084	07/05/05	523710
					.0759	.0067	08/02/05	524333
					.1192	.0086	08/30/05	524866
					.1198	.0090	09/27/05	525381
					.0868	.0083	10/25/05	525913
					.1362	.0121	11/21/05	526446
					.1103	.0108	12/19/05	527002
					.1196	.0192	12/27/05	527102
				BI-214				
					.0143	.0018	01/18/05	520440
					.0077	.0014	02/15/05	520966
					.0071	.0010	03/15/05	521490
					.0045	.0013	04/12/05	522027
					.0069	.0012	05/10/05	522625
					.0091	.0018	06/07/05	523156

Tennessee Valley Authority

Table 1

RADIOACTIVITY IN AIR FILTER

WATTS BAR NUCLEAR PLANT

PCI/M3 - 0.037 BQ/M3

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	RM-2 DAYTON TN	15.0 MILES SW	GAMMA SCAN (GELI)					
			BI-214					
					.0022	.0011	07/05/05	523710
					.0020	.0011	08/02/05	524333
					.0041	.0011	08/30/05	524866
					.0024	.0008	09/27/05	525381
					.0290	.0026	10/25/05	525913
					.0018	.0009	11/21/05	526446
					.0080	.0017	12/19/05	527002
					.0312	.0046	12/27/05	527102
			K-40					
					.0055	.0072	02/15/05	520966
					.0008	.0072	04/12/05	522027
					.0108	.0085	07/05/05	523710
					.0124	.0096	08/02/05	524333
					.0096	.0095	09/27/05	525381
					.0071	.0054	10/25/05	525913
					.0056	.0058	11/21/05	526446
					.0434	.0113	12/19/05	527002
					.0069	.0280	12/27/05	527102
			PB-212					
					.0004	.0004	04/12/05	522027
					.0010	.0007	08/02/05	524333
					.0002	.0006	09/27/05	525381
					.0011	.0005	12/19/05	527002
			PB-214					
					.0159	.0018	01/18/05	520440
					.0091	.0011	02/15/05	520966

Tennessee Valley Authority

Table 1

RADIOACTIVITY IN AIR FILTER

WATTS BAR NUCLEAR PLANT

PCI/M3 - 0.037 BQ/M3

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	RM-2 DAYTON TN	15.0 MILES SW						
			GAMMA SCAN (GELI)					
				PB-214				
					.0085	.0012	03/15/05	521490
					.0035	.0011	04/12/05	522027
					.0061	.0013	05/10/05	522625
					.0089	.0017	06/07/05	523156
					.0025	.0008	07/05/05	523710
					.0024	.0014	08/02/05	524333
					.0054	.0011	08/30/05	524866
					.0023	.0011	09/27/05	525381
					.0282	.0019	10/25/05	525913
					.0019	.0010	11/21/05	526446
					.0090	.0013	12/19/05	527002
					.0361	.0043	12/27/05	527102
				TL-208				
					.0004	.0005	08/30/05	524866
					.0005	.0003	09/27/05	525381
					.0023	.0015	12/27/05	527102
3101	LM1	0.5 MILES SSW						
			GROSS BETA					
					.0209	.0023	12/28/04	520077
					.0206	.0023	01/04/05	520178
					.0133	.0016	01/11/05	520282
					.0202	.0022	01/18/05	520394
					.0250	.0027	01/25/05	520567
					.0155	.0018	02/01/05	520705
					.0180	.0020	02/08/05	520816

Tennessee Valley Authority

Table 1

RADIOACTIVITY IN AIR FILTER

WATTS BAR NUCLEAR PLANT

PCI/M3 - 0.037 BQ/M3

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3101	LM1	0.5 MILES SSW						
			GROSS BETA					
					.0198	.0022	02/15/05	520921
					.0162	.0018	02/22/05	521065
					.0212	.0023	03/01/05	521209
					.0176	.0020	03/08/05	521327
					.0141	.0016	03/15/05	521445
					.0167	.0019	03/22/05	521643
					.0108	.0013	03/29/05	521764
					.0135	.0016	04/05/05	521871
					.0128	.0015	04/12/05	521982
					.0155	.0018	04/19/05	522125
					.0187	.0021	04/26/05	522346
					.0128	.0015	05/03/05	522468
					.0206	.0023	05/10/05	522580
					.0181	.0020	05/17/05	522745
					.0173	.0019	05/24/05	522883
					.0172	.0019	05/31/05	522994
					.0128	.0015	06/07/05	523111
					.0110	.0013	06/14/05	523264
					.0144	.0017	06/21/05	523396
					.0269	.0029	06/28/05	523547
					.0176	.0020	07/05/05	523665
					.0153	.0018	07/12/05	523833
					.0138	.0016	07/19/05	523989
					.0225	.0025	07/26/05	524158
					.0221	.0024	08/02/05	524288
					.0258	.0028	08/09/05	524452

Tennessee Valley Authority

Table 1
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<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3101	LM1	0.5 MILES SSW						
			GROSS BETA					
					.0222	.0024	08/16/05	524568
					.0210	.0023	08/23/05	524702
					.0347	.0037	08/30/05	524821
					.0278	.0030	09/06/05	524980
					.0348	.0037	09/13/05	525088
					.0281	.0030	09/20/05	525203
					.0282	.0030	09/27/05	525335
					.0266	.0029	10/04/05	525486
					.0141	.0017	10/11/05	525589
					.0268	.0029	10/18/05	525700
					.0373	.0039	10/25/05	525862
					.0248	.0027	11/01/05	526036
					.0318	.0034	11/07/05	526146
					.0257	.0028	11/15/05	526259
					.0248	.0027	11/21/05	526401
					.0262	.0028	11/29/05	526583
					.0274	.0029	12/06/05	526720
					.0295	.0031	12/13/05	526830
					.0218	.0024	12/19/05	526957
					.0344	.0036	12/27/05	527133
			GAMMA SCAN (GELI)					
				AC-228				
					.0021	.0017	08/02/05	524340
				BE-7				
					.1034	.0094	01/18/05	520447
					.0964	.0077	02/15/05	520973

Tennessee Valley Authority

Table 1
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WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3101	LM1	0.5 MILES SSW						
			GAMMA SCAN (GELI)					
				BE-7				
					.1041	.0086	03/15/05	521497
					.0765	.0084	04/12/05	522034
					.0975	.0099	05/10/05	522632
					.1066	.0089	06/07/05	523163
					.1032	.0095	07/05/05	523717
					.1042	.0132	08/02/05	524340
					.1191	.0106	08/30/05	524873
					.1135	.0099	09/27/05	525388
					.0782	.0086	10/25/05	525920
					.1325	.0091	11/21/05	526453
					.0875	.0105	12/19/05	527009
					.0974	.0108	12/27/05	527133
				BI-214				
					.0162	.0019	01/18/05	520447
					.0155	.0017	02/15/05	520973
					.0021	.0011	03/15/05	521497
					.0075	.0010	04/12/05	522034
					.0009	.0010	05/10/05	522632
					.0030	.0011	06/07/05	523163
					.0011	.0010	07/05/05	523717
					.0013	.0009	08/02/05	524340
					.0045	.0013	08/30/05	524873
					.0018	.0011	09/27/05	525388
					.0089	.0015	10/25/05	525920
					.0096	.0021	11/21/05	526453
					.0149	.0025	12/19/05	527009

Tennessee Valley Authority

Table 1

RADIOACTIVITY IN AIR FILTER

WATTS BAR NUCLEAR PLANT

PCI/M3 - 0.037 BQ/M3

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3101	LM1	0.5 MILES SSW						
			GAMMA SCAN (GELI)					
				BI-214	.0204	.0038	12/27/05	527133
				K-40	.0017	.0068	03/15/05	521497
					.0029	.0049	08/02/05	524340
					.0016	.0061	08/30/05	524873
					.0330	.0089	11/21/05	526453
					.0285	.0230	12/27/05	527133
				PB-212	.0007	.0005	03/15/05	521497
					.0000	.0004	04/12/05	522034
					.0012	.0007	11/21/05	526453
				PB-214	.0189	.0018	01/18/05	520447
					.0166	.0017	02/15/05	520973
					.0021	.0010	03/15/05	521497
					.0082	.0012	04/12/05	522034
					.0008	.0007	06/07/05	523163
					.0012	.0008	07/05/05	523717
					.0047	.0014	08/02/05	524340
					.0057	.0009	08/30/05	524873
					.0023	.0008	09/27/05	525388
					.0091	.0013	10/25/05	525920
					.0119	.0012	11/21/05	526453
					.0265	.0048	12/27/05	527133
				TL-208	.0004	.0005	08/02/05	524340

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATT'S BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3101	LM1	0.5 MILES SSW	GAMMA SCAN (GELI)	TL-208				
					.0015	.0006	11/21/05	526453
3102	LM2	0.4 MILES NNE	GROSS BETA					
					.0200	.0022	12/28/04	520080
					.0208	.0024	01/04/05	520181
					.0129	.0015	01/11/05	520284
					.0233	.0025	01/18/05	520397
					.0252	.0027	01/25/05	520570
					.0175	.0020	02/01/05	520708
					.0201	.0022	02/08/05	520818
					.0191	.0021	02/15/05	520924
					.0186	.0021	02/22/05	521068
					.0235	.0026	03/01/05	521212
					.0214	.0024	03/08/05	521329
					.0143	.0017	03/15/05	521448
					.0167	.0019	03/22/05	521646
					.0127	.0015	03/29/05	521767
					.0144	.0017	04/05/05	521873
					.0141	.0016	04/12/05	521985
					.0163	.0019	04/19/05	522128
					.0157	.0018	04/26/05	522349
					.0139	.0016	05/03/05	522470
					.0232	.0025	05/10/05	522583
					.0185	.0021	05/17/05	522748
					.0178	.0020	05/24/05	522886

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Table 1

RADIOACTIVITY IN AIR FILTER

WATTS BAR NUCLEAR PLANT

PCI/M3 - 0.037 BQ/M3

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3102	LM2	0.4 MILES NNE						
			GROSS BETA					
					.0148	.0017	05/31/05	522996
					.0132	.0016	06/07/05	523114
					.0104	.0014	06/14/05	523267
					.0145	.0017	06/21/05	523399
					.0244	.0027	06/28/05	523551
					.0165	.0019	07/05/05	523668
					.0139	.0016	07/12/05	523836
					.0134	.0016	07/19/05	523992
					.0211	.0023	07/26/05	524160
					.0220	.0024	08/02/05	524291
					.0251	.0027	08/09/05	524455
					.0205	.0023	08/16/05	524571
					.0213	.0023	08/23/05	524704
					.0332	.0035	08/30/05	524824
					.0267	.0029	09/06/05	524983
					.0365	.0039	09/13/05	525091
					.0258	.0028	09/20/05	525205
					.0275	.0030	09/27/05	525338
					.0237	.0026	10/04/05	525489
					.0135	.0016	10/11/05	525592
					.0276	.0030	10/18/05	525702
					.0384	.0040	10/25/05	525865
					.0213	.0023	11/01/05	526039
					.0270	.0029	11/07/05	526149
					.0235	.0025	11/15/05	526261
					.0265	.0029	11/21/05	526404

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Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3102	LM2	0.4 MILES NNE						
			GROSS BETA					
					.0248	.0027	11/29/05	526586
					.0247	.0027	12/06/05	526723
					.0305	.0033	12/13/05	526832
					.0235	.0026	12/19/05	526960
					.0291	.0031	12/27/05	527136
			GAMMA SCAN (GELI)					
			BE-7					
					.0987	.0075	01/18/05	520448
					.0931	.0097	02/15/05	520974
					.0878	.0087	03/15/05	521498
					.0817	.0086	04/12/05	522035
					.1285	.0095	05/10/05	522633
					.1036	.0088	06/07/05	523164
					.1067	.0121	07/05/05	523718
					.0987	.0096	08/02/05	524341
					.1147	.0088	08/30/05	524874
					.1211	.0117	09/27/05	525389
					.0835	.0094	10/25/05	525921
					.1165	.0092	11/21/05	526454
					.1066	.0093	12/19/05	527010
					.0984	.0173	12/27/05	527136
			BI-214					
					.0175	.0019	01/18/05	520448
					.0149	.0019	02/15/05	520974
					.0005	.0009	03/15/05	521498
					.0141	.0020	04/12/05	522035

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Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3102	LM2	0.4 MILES NNE						
			GAMMA SCAN (GELI)					
				BI-214				
					.0055	.0011	05/10/05	522633
					.0040	.0010	06/07/05	523164
					.0014	.0011	07/05/05	523718
					.0025	.0012	08/02/05	524341
					.0034	.0013	08/30/05	524874
					.0022	.0009	09/27/05	525389
					.0088	.0014	10/25/05	525921
					.0119	.0017	11/21/05	526454
					.0088	.0014	12/19/05	527010
					.0513	.0070	12/27/05	527136
				K-40				
					.0009	.0055	01/18/05	520448
					.0077	.0054	02/15/05	520974
					.0122	.0054	05/10/05	522633
					.0045	.0066	06/07/05	523164
					.0131	.0087	07/05/05	523718
					.0045	.0075	08/30/05	524874
					.0097	.0067	11/21/05	526454
				PB-212				
					.0012	.0007	03/15/05	521498
					.0001	.0005	06/07/05	523164
					.0004	.0005	07/05/05	523718
					.0005	.0005	10/25/05	525921
				PB-214				
					.0163	.0018	01/18/05	520448
					.0172	.0017	02/15/05	520974

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Table 1

RADIOACTIVITY IN AIR FILTER

WATTS BAR NUCLEAR PLANT

PCI/M3 - 0.037 BQ/M3

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3102	LM2	0.4 MILES NNE	GAMMA SCAN (GELI)	PB-214				
					.0160	.0018	04/12/05	522035
					.0037	.0011	05/10/05	522633
					.0035	.0009	06/07/05	523164
					.0014	.0012	08/02/05	524341
					.0031	.0008	08/30/05	524874
					.0005	.0010	09/27/05	525389
					.0105	.0015	10/25/05	525921
					.0139	.0016	11/21/05	526454
					.0070	.0012	12/19/05	527010
					.0692	.0082	12/27/05	527136
				TL-208				
					.0013	.0005	03/15/05	521498
					.0003	.0004	06/07/05	523164
3106	PM2 SPRING CITY	7.0 MILES NW	GROSS BETA					
					.0207	.0023	12/28/04	520084
					.0209	.0024	01/04/05	520185
					.0146	.0017	01/11/05	520287
					.0206	.0023	01/18/05	520401
					.0251	.0027	01/25/05	520574
					.0150	.0017	02/01/05	520712
					.0179	.0020	02/08/05	520821
					.0207	.0023	02/15/05	520928
					.0193	.0022	02/22/05	521072
					.0181	.0020	03/01/05	521216

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Table 1

RADIOACTIVITY IN AIR FILTER

WATTS BAR NUCLEAR PLANT

PCI/M3 - 0.037 BQ/M3

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3106	PM2 SPRING CITY	7.0 MILES NW						
			GROSS BETA					
					.0197	.0022	03/08/05	521332
					.0142	.0017	03/15/05	521452
					.0179	.0020	03/22/05	521650
					.0110	.0014	03/29/05	521771
					.0137	.0016	04/05/05	521876
					.0148	.0017	04/12/05	521989
					.0179	.0020	04/19/05	522132
					.0191	.0021	04/26/05	522353
					.0134	.0016	05/03/05	522473
					.0225	.0025	05/10/05	522587
					.0188	.0021	05/17/05	522752
					.0183	.0021	05/24/05	522890
					.0165	.0019	05/31/05	522999
					.0147	.0017	06/07/05	523118
					.0124	.0015	06/14/05	523271
					.0160	.0019	06/21/05	523403
					.0280	.0030	06/28/05	523555
					.0198	.0022	07/05/05	523672
					.0178	.0020	07/12/05	523840
					.0153	.0018	07/19/05	523996
					.0214	.0024	07/26/05	524163
					.0231	.0025	08/02/05	524295
					.0270	.0029	08/09/05	524459
					.0233	.0026	08/16/05	524575
					.0221	.0025	08/23/05	524707
					.0358	.0038	08/30/05	524828

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Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3106	PM2 SPRING CITY	7.0 MILES NW						
			GROSS BETA					
					.0277	.0030	09/06/05	524987
					.0377	.0040	09/13/05	525095
					.0267	.0029	09/20/05	525208
					.0258	.0028	09/27/05	525342
					.0241	.0026	10/04/05	525493
					.0153	.0018	10/11/05	525596
					.0271	.0029	10/18/05	525705
					.0389	.0041	10/25/05	525869
					.0245	.0027	11/01/05	526043
					.0328	.0035	11/07/05	526153
					.0292	.0031	11/15/05	526264
					.0258	.0028	11/21/05	526408
					.0268	.0029	11/29/05	526590
					.0277	.0030	12/06/05	526727
					.0319	.0034	12/13/05	526835
					.0243	.0027	12/19/05	526964
					.0337	.0036	12/27/05	527140
			GAMMA SCAN (GELI)					
			BE-7					
					.0945	.0084	01/18/05	520449
					.0902	.0065	02/15/05	520975
					.0918	.0081	03/15/05	521499
					.0960	.0085	04/12/05	522036
					.1130	.0111	05/10/05	522634
					.1070	.0093	06/07/05	523165
					.0987	.0099	07/05/05	523719

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Table 1

RADIOACTIVITY IN AIR FILTER

WATTS BAR NUCLEAR PLANT

PCI/M3 - 0.037 BQ/M3

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3106	PM2 SPRING CITY	7.0 MILES NW						
			GAMMA SCAN (GELI)					
				BE-7				
					.1092	.0117	08/02/05	524342
					.0949	.0119	08/30/05	524875
					.1193	.0094	09/27/05	525390
					.0970	.0078	10/25/05	525922
					.1333	.0114	11/21/05	526455
					.0808	.0075	12/19/05	527011
					.1131	.0191	12/27/05	527140
				BI-214				
					.0169	.0021	01/18/05	520449
					.0064	.0012	02/15/05	520975
					.0045	.0017	03/15/05	521499
					.0126	.0017	04/12/05	522036
					.0040	.0014	05/10/05	522634
					.0110	.0014	06/07/05	523165
					.0018	.0008	07/05/05	523719
					.0023	.0011	08/02/05	524342
					.0033	.0013	09/27/05	525390
					.0133	.0017	10/25/05	525922
					.0227	.0025	11/21/05	526455
					.0069	.0012	12/19/05	527011
					.0506	.0065	12/27/05	527140
				K-40				
					.0082	.0054	02/15/05	520975
					.0095	.0080	04/12/05	522036
					.0080	.0039	05/10/05	522634
					.0099	.0067	06/07/05	523165

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Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3106	PM2 SPRING CITY	7.0 MILES NW	GAMMA SCAN (GELI)	K-40	.0136	.0077	10/25/05	525922
					.0086	.0082	12/19/05	527011
				PB-212	.0007	.0006	12/19/05	527011
				PB-214	.0161	.0016	01/18/05	520449
					.0075	.0009	02/15/05	520975
					.0075	.0016	03/15/05	521499
					.0090	.0015	04/12/05	522036
					.0034	.0010	05/10/05	522634
					.0079	.0012	06/07/05	523165
					.0008	.0007	07/05/05	523719
					.0039	.0011	08/02/05	524342
					.0010	.0010	08/30/05	524875
					.0046	.0012	09/27/05	525390
					.0127	.0015	10/25/05	525922
					.0221	.0021	11/21/05	526455
					.0059	.0017	12/19/05	527011
					.0570	.0063	12/27/05	527140
3107	PM3	10.4 MILES NNE	GROSS BETA		.0232	.0025	12/28/04	520087
					.0236	.0026	01/04/05	520188
					.0121	.0015	01/11/05	520289
					.0212	.0023	01/18/05	520404
					.0237	.0026	01/25/05	520577

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Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3107	PM3	10.4 MILES NNE						
			GROSS BETA					
					.0128	.0015	02/01/05	520715
					.0181	.0020	02/01/05	520823
					.0187	.0021	02/15/05	520931
					.0179	.0020	02/22/05	521075
					.0215	.0024	03/01/05	521219
					.0196	.0022	03/08/05	521334
					.0159	.0018	03/15/05	521455
					.0162	.0018	03/22/05	521653
					.0121	.0014	03/29/05	521774
					.0143	.0017	04/05/05	521878
					.0125	.0015	04/12/05	521992
					.0167	.0019	04/19/05	522135
					.0171	.0019	04/26/05	522356
					.0134	.0016	05/03/05	522475
					.0219	.0024	05/10/05	522590
					.0184	.0021	05/17/05	522755
					.0170	.0019	05/24/05	522893
					.0156	.0018	05/31/05	523001
					.0116	.0014	06/07/05	523121
					.0118	.0014	06/14/05	523274
					.0156	.0018	06/21/05	523406
					.0219	.0024	06/28/05	523558
					.0198	.0022	07/05/05	523675
					.0145	.0017	07/12/05	523843
					.0156	.0018	07/19/05	523999
					.0216	.0024	07/26/05	524165

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Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3107	PM3	10.4 MILES NNE						
			GROSS BETA					
					.0210	.0023	08/02/05	524298
					.0264	.0028	08/09/05	524462
					.0230	.0025	08/16/05	524578
					.0198	.0022	08/23/05	524709
					.0339	.0036	08/30/05	524831
					.0268	.0029	09/06/05	524990
					.0382	.0040	09/13/05	525098
					.0283	.0030	09/20/05	525210
					.0254	.0028	09/27/05	525345
					.0281	.0030	10/04/05	525496
					.0134	.0016	10/11/05	525599
					.0282	.0030	10/18/05	525707
					.0370	.0039	10/25/05	525872
					.0217	.0024	11/01/05	526046
					.0283	.0031	11/07/05	526156
					.0244	.0026	11/15/05	526266
					.0235	.0026	11/21/05	526411
					.0252	.0027	11/29/05	526593
					.0300	.0032	12/06/05	526730
					.0290	.0031	12/13/05	526837
					.0237	.0026	12/19/05	526967
					.0327	.0034	12/27/05	527143
			GAMMA SCAN (GELI)					
			AC-228					
					.0087	.0053	12/27/05	527143
			BE-7					

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Table 1

RADIOACTIVITY IN AIR FILTER

WATTS BAR NUCLEAR PLANT

PCI/M3 - 0.037 BQ/M3

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3107	PM3	10.4 MILES NNE						
			GAMMA SCAN (GELI)					
				BE-7				
					.0952	.0077	01/18/05	520450
					.0815	.0077	02/15/05	520976
					.1077	.0085	03/15/05	521500
					.0891	.0073	04/12/05	522037
					.1396	.0093	05/03/05	522635
					.1093	.0096	06/07/05	523166
					.1159	.0095	07/05/05	523720
					.1000	.0116	08/02/05	524343
					.1219	.0105	08/30/05	524876
					.1319	.0123	09/27/05	525391
					.0889	.0077	10/25/05	525923
					.1167	.0107	11/21/05	526456
					.1016	.0092	12/19/05	527012
					.0919	.0143	12/27/05	527143
				BI-214				
					.0058	.0013	01/18/05	520450
					.0012	.0008	02/15/05	520976
					.0058	.0013	03/15/05	521500
					.0072	.0013	04/12/05	522037
					.0057	.0013	05/03/05	522635
					.0052	.0013	06/07/05	523166
					.0043	.0013	07/05/05	523720
					.0043	.0014	08/02/05	524343
					.0073	.0012	08/30/05	524876
					.0043	.0012	09/27/05	525391
					.0139	.0016	10/25/05	525923

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Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3107	PM3	10.4 MILES NNE						
			GAMMA SCAN (GELI)					
				BI-214	.0190	.0025	11/21/05	526456
					.0087	.0014	12/19/05	527012
					.0218	.0037	12/27/05	527143
				K-40				
					.0010	.0065	01/18/05	520450
					.0101	.0107	02/15/05	520976
					.0001	.0051	03/15/05	521500
					.0105	.0072	11/21/05	526456
					.0227	.0082	12/19/05	527012
					.0263	.0194	12/27/05	527143
				PB-212				
					.0006	.0005	01/18/05	520450
					.0004	.0004	02/15/05	520976
					.0012	.0007	12/19/05	527012
				PB-214				
					.0066	.0012	01/18/05	520450
					.0054	.0008	03/15/05	521500
					.0061	.0011	04/12/05	522037
					.0055	.0009	05/03/05	522635
					.0016	.0009	06/07/05	523166
					.0053	.0015	07/05/05	523720
					.0048	.0011	08/02/05	524343
					.0080	.0010	08/30/05	524876
					.0047	.0010	09/27/05	525391
					.0126	.0016	10/25/05	525923
					.0196	.0021	11/21/05	526456

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3107	PM3	10.4 MILES NNE	GAMMA SCAN (GELI)	PB-214				
					.0088	.0017	12/19/05	527012
					.0220	.0044	12/27/05	527143
3108	PM4	7.6 MILES NE/ENE	GROSS BETA					
					.0207	.0022	12/28/04	520090
					.0226	.0025	01/04/05	520190
					.0129	.0015	01/12/05	520291
					.0205	.0023	01/18/05	520406
					.0246	.0026	01/26/05	520580
					.0150	.0017	02/02/05	520717
					.0186	.0021	02/09/05	520825
					.0229	.0025	02/15/05	520933
					.0173	.0019	02/23/05	521078
					.0196	.0022	03/01/05	521221
					.0180	.0020	03/09/05	521336
					.0141	.0017	03/15/05	521457
					.0165	.0019	03/22/05	521656
					.0124	.0015	03/30/05	521776
					.0125	.0015	04/06/05	521880
					.0139	.0016	04/12/05	521994
					.0181	.0020	04/20/05	522138
					.0144	.0017	04/27/05	522358
					.0152	.0017	05/04/05	522477
					.0230	.0025	05/10/05	522592
					.0214	.0023	05/17/05	522758

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Table 1

RADIOACTIVITY IN AIR FILTER

WATTS BAR NUCLEAR PLANT

PCI/M3 - 0.037 BQ/M3

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3108	PM4	7.6 MILES NE/ENE						
			GROSS BETA					
					.0158	.0018	05/24/05	522895
					.0163	.0018	06/01/05	523003
					.0117	.0014	06/07/05	523123
					.0107	.0013	06/15/05	523277
					.0162	.0019	06/21/05	523408
					.0248	.0027	06/28/05	523561
					.0183	.0020	07/05/05	523677
					.0153	.0018	07/12/05	523846
					.0130	.0015	07/19/05	524001
					.0192	.0021	07/26/05	524167
					.0198	.0022	08/02/05	524300
					.0213	.0023	08/10/05	524465
					.0225	.0025	08/16/05	524580
					.0220	.0024	08/23/05	524711
					.0322	.0034	08/30/05	524833
					.0247	.0026	09/07/05	524993
					.0388	.0041	09/14/05	525100
					.0279	.0030	09/21/05	525212
					.0230	.0025	09/27/05	525347
					.0259	.0028	10/05/05	525499
					.0115	.0014	10/12/05	525601
					.0281	.0030	10/19/05	525709
					.0303	.0032	10/26/05	525874
					.0238	.0026	11/02/05	526049
					.0285	.0031	11/07/05	526158
					.0239	.0025	11/16/05	526268

Tennessee Valley Authority

Table 1
 RADIOACTIVITY IN AIR FILTER
 WATTS BAR NUCLEAR PLANT
 PCI/M3 - 0.037 BQ/M3
 12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3108	PM4	7.6 MILES NE/ENE						
			GROSS BETA					
					.0302	.0033	11/21/05	526413
					.0226	.0024	11/30/05	526596
					.0249	.0027	12/07/05	526732
					.0279	.0030	12/14/05	526839
					.0215	.0024	12/20/05	526969
					.0304	.0032	12/28/05	527146
			GAMMA SCAN (GELI)					
			AC-228					
					.0022	.0012	09/27/05	525392
					.0097	.0018	10/26/05	525924
			BE-7					
					.1017	.0090	01/18/05	520451
					.0961	.0095	02/15/05	520977
					.1095	.0080	03/15/05	521501
					.0959	.0108	04/12/05	522038
					.1123	.0117	05/10/05	522636
					.1118	.0098	06/07/05	523167
					.0912	.0075	07/05/05	523721
					.0986	.0101	08/02/05	524344
					.0927	.0077	08/30/05	524877
					.1176	.0094	09/27/05	525392
					.0685	.0071	10/26/05	525924
					.1313	.0096	11/21/05	526457
					.0965	.0099	12/20/05	527013
					.1052	.0148	12/28/05	527146
			BI-214					

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3108	PM4	7.6 MILES NE/ENE						
			GAMMA SCAN (GELI)					
				BI-214				
					.0035	.0009	01/18/05	520451
					.0019	.0014	02/15/05	520977
					.0042	.0011	03/15/05	521501
					.0007	.0011	04/12/05	522038
					.0137	.0023	05/10/05	522636
					.0055	.0015	06/07/05	523167
					.0025	.0010	07/05/05	523721
					.0019	.0011	08/02/05	524344
					.0136	.0017	08/30/05	524877
					.0015	.0010	09/27/05	525392
					.0289	.0034	10/26/05	525924
					.0152	.0018	11/21/05	526457
					.0060	.0012	12/20/05	527013
					.0272	.0045	12/28/05	527146
				K-40				
					.0010	.0068	03/15/05	521501
					.0076	.0059	08/02/05	524344
					.0064	.0044	09/27/05	525392
					.2062	.0197	10/26/05	525924
					.0195	.0080	11/21/05	526457
					.0098	.0053	12/20/05	527013
					.0172	.0321	12/28/05	527146
				PB-212				
					.0007	.0005	02/15/05	520977
					.0002	.0004	08/02/05	524344
					.0061	.0010	10/26/05	525924

Tennessee Valley Authority

Table 1

RADIOACTIVITY IN AIR FILTER

WATTS BAR NUCLEAR PLANT

PCI/M3 - 0.037 BQ/M3

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3108	PM4	7.6 MILES NE/ENE						
			GAMMA SCAN (GELI)					
				PB-212				
					.0030	.0021	12/28/05	527146
				PB-214				
					.0042	.0010	01/18/05	520451
					.0034	.0012	03/15/05	521501
					.0151	.0021	05/10/05	522636
					.0063	.0010	06/07/05	523167
					.0027	.0010	07/05/05	523721
					.0015	.0011	08/02/05	524344
					.0133	.0015	08/30/05	524877
					.0018	.0008	09/27/05	525392
					.0230	.0025	10/26/05	525924
					.0138	.0014	11/21/05	526457
					.0054	.0011	12/20/05	527013
					.0338	.0042	12/28/05	527146
				TL-208				
					.0010	.0004	02/15/05	520977
					.0030	.0007	10/26/05	525924
					.0004	.0011	12/28/05	527146
3109	PM5 DECATUR	8.0 MILES S						
			GROSS BETA					
					.0219	.0024	12/28/04	520093
					.0212	.0023	01/05/05	520192
					.0132	.0015	01/12/05	520293
					.0198	.0022	01/19/05	520408
					.0243	.0026	01/26/05	520583
					.0148	.0017	02/02/05	520719

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Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3109	PM5 DECATUR	8.0 MILES S						
			GROSS BETA					
					.0191	.0021	02/09/05	520827
					.0212	.0023	02/16/05	520935
					.0164	.0019	02/23/05	521081
					.0223	.0024	03/02/05	521223
					.0191	.0021	03/09/05	521338
					.0143	.0017	03/16/05	521459
					.0164	.0019	03/22/05	521659
					.0130	.0015	03/30/05	521778
					.0125	.0015	04/06/05	521882
					.0125	.0015	04/13/05	521996
					.0190	.0021	04/20/05	522141
					.0165	.0019	04/27/05	522360
					.0157	.0018	05/04/05	522479
					.0204	.0023	05/11/05	522594
					.0232	.0025	05/18/05	522761
					.0153	.0017	05/25/05	522897
					.0180	.0020	06/01/05	523005
					.0123	.0015	06/08/05	523125
					.0101	.0013	06/15/05	523280
					.0169	.0019	06/22/05	523410
					.0260	.0028	06/29/05	523564
					.0181	.0020	07/06/05	523679
					.0147	.0017	07/13/05	523849
					.0121	.0015	07/19/05	524003
					.0204	.0022	07/26/05	524169
					.0201	.0022	08/03/05	524302

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Table 1

RADIOACTIVITY IN AIR FILTER

WATTS BAR NUCLEAR PLANT

PCI/M3 - 0.037 BQ/M3

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3109	PM5-DECATUR	8.0 MILES S						
			GROSS BETA					
					.0253	.0027	08/10/05	524468
					.0241	.0026	08/17/05	524582
					.0196	.0022	08/23/05	524713
					.0299	.0032	08/31/05	524835
					.0300	.0032	09/07/05	524996
					.0386	.0041	09/14/05	525102
					.0269	.0029	09/21/05	525214
					.0262	.0028	09/28/05	525349
					.0287	.0031	10/05/05	525502
					.0127	.0015	10/12/05	525603
					.0318	.0034	10/19/05	525711
					.0356	.0037	10/26/05	525876
					.0291	.0031	11/02/05	526052
					.0306	.0033	11/07/05	526160
					.0267	.0028	11/16/05	526270
					.0294	.0032	11/21/05	526415
					.0233	.0025	11/30/05	526599
					.0275	.0029	12/07/05	526734
					.0283	.0030	12/14/05	526841
					.0231	.0026	12/20/05	526971
					.0298	.0031	12/28/05	527149
			GAMMA SCAN (GELI)					
			BE-7					
					.0956	.0081	01/19/05	520452
					.0868	.0091	02/16/05	520978
					.0992	.0079	03/16/05	521502

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Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3109	PM5 DECATUR	8.0 MILES S						
			GAMMA SCAN (GELI)					
				BE-7				
					.0858	.0072	04/13/05	522039
					.1236	.0118	05/11/05	522637
					.1026	.0107	06/08/05	523168
					.1028	.0086	07/06/05	523722
					.0894	.0085	08/03/05	524345
					.0959	.0093	08/31/05	524878
					.1162	.0103	09/28/05	525393
					.0436	.0070	10/26/05	525925
					.1069	.0076	11/21/05	526458
					.0842	.0077	12/20/05	527014
					.0980	.0187	12/28/05	527149
				BI-214				
					.0014	.0010	01/19/05	520452
					.0339	.0032	02/16/05	520978
					.0020	.0009	04/13/05	522039
					.0038	.0012	05/11/05	522637
					.0058	.0016	06/08/05	523168
					.0015	.0008	07/06/05	523722
					.0032	.0009	08/03/05	524345
					.0088	.0013	08/31/05	524878
					.0021	.0011	09/28/05	525393
					.0037	.0012	10/26/05	525925
					.0075	.0016	11/21/05	526458
					.0065	.0014	12/20/05	527014
					.0338	.0053	12/28/05	527149
				K-40				

Tennessee Valley Authority

Table 1
 RADIOACTIVITY IN AIR FILTER
 WATTS BAR NUCLEAR PLANT
 PCI/M3 - 0.037 BQ/M3
 12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3109	PM5 DECATUR	8.0 MILES S						
			GAMMA SCAN (GELI)					
				K-40	.0144	.0068	04/13/05	522039
					.0026	.0073	08/03/05	524345
					.0073	.0052	08/31/05	524878
					.0054	.0064	09/28/05	525393
					.0097	.0084	11/21/05	526458
					.0070	.0078	12/20/05	527014
					.0336	.0270	12/28/05	527149
			PB-212					
					.0003	.0005	04/13/05	522039
					.0001	.0005	08/03/05	524345
					.0051	.0017	12/28/05	527149
			PB-214					
					.0314	.0022	02/16/05	520978
					.0028	.0011	04/13/05	522039
					.0040	.0006	05/11/05	522637
					.0063	.0012	06/08/05	523168
					.0019	.0009	07/06/05	523722
					.0039	.0011	08/03/05	524345
					.0103	.0014	08/31/05	524878
					.0013	.0008	09/28/05	525393
					.0047	.0011	10/26/05	525925
					.0115	.0013	11/21/05	526458
					.0082	.0010	12/20/05	527014
					.0368	.0047	12/28/05	527149
			TL-208					
					.0008	.0006	11/21/05	526458

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Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3203	LM3	1.9 MILES NNE						
			GROSS BETA					
					.0224	.0024	12/28/04	520099
					.0227	.0025	01/04/05	520204
					.0158	.0018	01/11/05	520295
					.0203	.0022	01/18/05	520415
					.0231	.0025	01/26/05	520590
					.0140	.0017	02/01/05	520732
					.0207	.0023	02/09/05	520829
					.0210	.0023	02/15/05	520941
					.0155	.0018	02/22/05	521087
					.0244	.0026	03/01/05	521235
					.0184	.0021	03/08/05	521340
					.0142	.0017	03/15/05	521465
					.0162	.0018	03/22/05	521665
					.0121	.0014	03/29/05	521790
					.0140	.0016	04/05/05	521884
					.0117	.0014	04/12/05	522002
					.0169	.0019	04/19/05	522148
					.0175	.0020	04/26/05	522376
					.0133	.0016	05/03/05	522481
					.0218	.0024	05/10/05	522600
					.0191	.0021	05/17/05	522767
					.0186	.0021	05/24/05	522909
					.0174	.0019	05/31/05	523007
					.0129	.0015	06/07/05	523131
					.0116	.0014	06/14/05	523286
					.0158	.0018	06/21/05	523423

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Table 1

RADIOACTIVITY IN AIR FILTER

WATTS BAR NUCLEAR PLANT

PCI/M3 - 0.037 BQ/M3

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3203	LM3	1.9 MILES NNE						
			GROSS BETA					
					.0240	.0026	06/28/05	523567
					.0147	.0017	07/07/05	523685
					.0159	.0018	07/12/05	523855
					.0134	.0016	07/19/05	524016
					.0216	.0024	07/26/05	524171
					.0240	.0026	08/02/05	524308
					.0258	.0028	08/09/05	524474
					.0236	.0026	08/16/05	524595
					.0226	.0025	08/23/05	524715
					.0340	.0036	08/30/05	524841
					.0264	.0028	09/06/05	525002
					.0380	.0040	09/13/05	525114
					.0268	.0029	09/20/05	525216
					.0270	.0029	09/27/05	525356
					.0244	.0026	10/04/05	525508
					.0138	.0016	10/11/05	525615
					.0278	.0030	10/18/05	525713
					.0357	.0038	10/25/05	525885
					.0232	.0025	11/01/05	526058
					.0331	.0035	11/07/05	526172
					.0254	.0027	11/15/05	526272
					.0208	.0023	11/21/05	526421
					.0237	.0026	11/29/05	526605
					.0267	.0029	12/06/05	526746
					.0308	.0033	12/13/05	526843
					.0224	.0025	12/19/05	526977

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Table 1

RADIOACTIVITY IN AIR FILTER

WATTS BAR NUCLEAR PLANT

PCI/M3 - 0.037 BQ/M3

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3203	LM3	1.9 MILES NNE						
			GROSS BETA					
					.0290	.0031	12/27/05	527155
			GAMMA SCAN (GELI)					
				AC-228				
					.0034	.0012	08/02/05	524346
				BE-7				
					.0978	.0101	01/18/05	520453
					.0833	.0066	02/15/05	520979
					.1079	.0091	03/15/05	521503
					.0957	.0083	04/12/05	522040
					.1377	.0100	05/10/05	522638
					.1246	.0088	06/07/05	523169
					.1016	.0096	07/07/05	523723
					.1011	.0079	08/02/05	524346
					.1036	.0083	08/30/05	524879
					.1146	.0098	09/27/05	525394
					.0772	.0074	10/25/05	525926
					.1244	.0088	11/21/05	526459
					.1125	.0075	12/19/05	527015
					.1055	.0179	12/27/05	527155
				BI-214				
					.0071	.0014	01/18/05	520453
					.0225	.0020	02/15/05	520979
					.0051	.0013	03/15/05	521503
					.0053	.0014	05/10/05	522638
					.0044	.0012	06/07/05	523169
					.0024	.0009	07/07/05	523723

Tennessee Valley Authority

Table 1

RADIOACTIVITY IN AIR FILTER

WATTS BAR NUCLEAR PLANT

PCI/M3 - 0.037 BQ/M3

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3203	LM3	1.9 MILES NNE						
			GAMMA SCAN (GELI)					
				BI-214				
					.0056	.0012	08/02/05	524346
					.0109	.0015	08/30/05	524879
					.0026	.0011	09/27/05	525394
					.0098	.0015	10/25/05	525926
					.0163	.0018	11/21/05	526459
					.0090	.0013	12/19/05	527015
					.0672	.0069	12/27/05	527155
				K-40				
					.0174	.0105	01/18/05	520453
					.0073	.0063	02/15/05	520979
					.0033	.0061	03/15/05	521503
					.0094	.0066	05/10/05	522638
					.0181	.0072	06/07/05	523169
					.0139	.0056	07/07/05	523723
					.0095	.0057	08/02/05	524346
					.0374	.0111	11/21/05	526459
					.0082	.0054	12/19/05	527015
				PB-212				
					.0002	.0006	01/18/05	520453
					.0013	.0007	04/12/05	522040
					.0010	.0006	11/21/05	526459
				PB-214				
					.0058	.0009	01/18/05	520453
					.0209	.0024	02/15/05	520979
					.0063	.0010	03/15/05	521503
					.0033	.0009	05/10/05	522638

Tennessee Valley Authority

Table 1

RADIOACTIVITY IN AIR FILTER

WATTS BAR NUCLEAR PLANT

PCI/M3 - 0.037 BQ/M3

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3203	LM3	1.9 MILES NNE						
			GAMMA SCAN (GELI)					
				PB-214	.0050	.0011	06/07/05	523169
					.0034	.0012	07/07/05	523723
					.0064	.0012	08/02/05	524346
					.0138	.0013	08/30/05	524879
					.0091	.0011	10/25/05	525926
					.0153	.0015	11/21/05	526459
					.0095	.0013	12/19/05	527015
					.0586	.0067	12/27/05	527155
				TL-208	.0002	.0003	01/18/05	520453
					.0005	.0003	05/10/05	522638
					.0009	.0004	09/27/05	525394
3204	LM-4 WB	0.9 MILES SE						
			GROSS BETA					
					.0212	.0023	12/28/04	520102
					.0218	.0024	01/04/05	520207
					.0143	.0017	01/11/05	520297
					.0201	.0022	01/18/05	520418
					.0233	.0025	01/26/05	520593
					.0144	.0017	02/01/05	520735
					.0161	.0018	02/09/05	520831
					.0232	.0025	02/15/05	520944
					.0174	.0019	02/23/05	521090
					.0228	.0025	03/01/05	521238
					.0190	.0021	03/09/05	521342

Tennessee Valley Authority

Table 1

RADIOACTIVITY IN AIR FILTER

WATTS BAR NUCLEAR PLANT

PCI/M3 - 0.037 BQ/M3

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3204	LM-4 WB	0.9 MILES SE						
			GROSS BETA					
					.0130	.0016	03/15/05	521468
					.0146	.0017	03/22/05	521668
					.0112	.0014	03/29/05	521793
					.0128	.0015	04/05/05	521886
					.0136	.0016	04/12/05	522005
					.0179	.0020	04/20/05	522151
					.0167	.0019	04/26/05	522379
					.0147	.0017	05/04/05	522483
					.0221	.0024	05/10/05	522603
					.0203	.0022	05/17/05	522770
					.0168	.0019	05/25/05	522912
					.0186	.0021	06/01/05	523009
					.0112	.0014	06/07/05	523134
					.0096	.0012	06/15/05	523289
					.0174	.0020	06/21/05	523426
					.0251	.0027	06/28/05	523570
					.0172	.0019	07/05/05	523688
					.0148	.0017	07/12/05	523858
					.0139	.0016	07/19/05	524019
					.0205	.0023	07/26/05	524173
					.0204	.0023	08/02/05	524311
					.0254	.0027	08/10/05	524477
					.0235	.0026	08/16/05	524598
					.0199	.0022	08/23/05	524717
					.0323	.0034	08/30/05	524844
					.0258	.0028	09/07/05	525005

Tennessee Valley Authority

Table 1

RADIOACTIVITY IN AIR FILTER

WATTS BAR NUCLEAR PLANT

PCI/M3 - 0.037 BQ/M3

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3204	LM-4 WB	0.9 MILES SE						
			GROSS BETA					
					.0382	.0040	09/13/05	525117
					.0293	.0031	09/20/05	525218
					.0252	.0027	09/27/05	525359
					.0263	.0028	10/05/05	525511
					.0116	.0014	10/11/05	525618
					.0296	.0032	10/19/05	525715
					.0347	.0037	10/25/05	525888
					.0239	.0026	11/02/05	526061
					.0348	.0037	11/07/05	526175
					.0255	.0027	11/15/05	526274
					.0287	.0031	11/21/05	526424
					.0248	.0027	11/30/05	526608
					.0270	.0029	12/06/05	526749
					.0304	.0032	12/14/05	526845
					.0244	.0028	12/19/05	526980
					.0303	.0032	12/28/05	527158
			GAMMA SCAN (GELI)					
				AC-228				
					.0027	.0013	09/27/05	525395
				BE-7				
					.1018	.0080	01/18/05	520454
					.0872	.0101	02/15/05	520980
					.1017	.0094	03/15/05	521504
					.0703	.0083	04/12/05	522041
					.1232	.0120	05/10/05	522639
					.1186	.0107	06/07/05	523170

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3204	LM-4 WB	0.9 MILES SE						
			GAMMA SCAN (GELI)					
				BE-7				
					.0882	.0095	07/05/05	523724
					.1083	.0089	08/02/05	524347
					.1208	.0102	08/30/05	524880
					.1199	.0101	09/27/05	525395
					.0681	.0087	10/25/05	525927
					.1248	.0098	11/21/05	526460
					.0928	.0078	12/19/05	527016
					.0678	.0157	12/28/05	527158
				BI-214				
					.0055	.0013	01/18/05	520454
					.0303	.0030	02/15/05	520980
					.0047	.0014	03/15/05	521504
					.0020	.0010	04/12/05	522041
					.0009	.0009	06/07/05	523170
					.0022	.0010	07/05/05	523724
					.0050	.0011	08/02/05	524347
					.0117	.0016	08/30/05	524880
					.0013	.0010	09/27/05	525395
					.0074	.0018	10/25/05	525927
					.0128	.0017	11/21/05	526460
					.0089	.0017	12/19/05	527016
					.0707	.0072	12/28/05	527158
				K-40				
					.0018	.0057	01/18/05	520454
					.0096	.0083	08/30/05	524880
					.0031	.0057	09/27/05	525395

Tennessee Valley Authority

Table 1

RADIOACTIVITY IN AIR FILTER

WATTS BAR NUCLEAR PLANT

PCI/M3 - 0.037 BQ/M3

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3204	LM-4 WB	0.9 MILES SE						
			GAMMA SCAN (GELI)					
				K-40	.0075	.0053	10/25/05	525927
					.0038	.0058	11/21/05	526460
					.0314	.0106	12/19/05	527016
				PB-212				
					.0010	.0007	12/19/05	527016
				PB-214				
					.0070	.0013	01/18/05	520454
					.0324	.0028	02/15/05	520980
					.0050	.0010	03/15/05	521504
					.0020	.0006	04/12/05	522041
					.0050	.0011	08/02/05	524347
					.0141	.0013	08/30/05	524880
					.0022	.0007	09/27/05	525395
					.0053	.0015	10/25/05	525927
					.0132	.0018	11/21/05	526460
					.0073	.0012	12/19/05	527016
					.0705	.0075	12/28/05	527158
3205	RM-3 WB	15 MILES NNW						
			GROSS BETA					
					.0200	.0022	12/28/04	520105
					.0187	.0021	01/04/05	520210
					.0129	.0015	01/11/05	520299
					.0212	.0023	01/18/05	520421
					.0239	.0026	01/25/05	520596
					.0169	.0019	02/01/05	520738
					.0181	.0020	02/08/05	520833

Tennessee Valley Authority

Table 1

RADIOACTIVITY IN AIR FILTER

WATTS BAR NUCLEAR PLANT

PCI/M3 - 0.037 BQ/M3

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3205	RM-3 WB	15 MILES NNW						
			GROSS BETA					
					.0184	.0021	02/15/05	520947
					.0187	.0021	02/22/05	521093
					.0194	.0022	03/01/05	521241
					.0178	.0020	03/08/05	521344
					.0124	.0015	03/15/05	521471
					.0178	.0020	03/22/05	521671
					.0119	.0014	03/29/05	521796
					.0139	.0016	04/05/05	521888
					.0138	.0016	04/12/05	522008
					.0163	.0019	04/19/05	522154
					.0175	.0020	04/26/05	522382
					.0145	.0017	05/03/05	522485
					.0231	.0025	05/10/05	522606
					.0180	.0020	05/17/05	522773
					.0168	.0019	05/24/05	522915
					.0138	.0016	05/31/05	523011
					.0127	.0015	06/07/05	523137
					.0123	.0015	06/14/05	523292
					.0156	.0018	06/21/05	523429
					.0233	.0025	06/28/05	523573
					.0177	.0020	07/05/05	523691
					.0168	.0019	07/12/05	523861
					.0151	.0018	07/19/05	524022
					.0217	.0024	07/26/05	524175
					.0202	.0022	08/02/05	524314
					.0257	.0028	08/09/05	524480

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3205	RM-3 WB	15 MILES NNW	GROSS BETA					
					.0209	.0023	08/16/05	524601
					.0197	.0022	08/23/05	524719
					.0325	.0034	08/30/05	524847
					.0254	.0027	09/06/05	525008
					.0363	.0038	09/13/05	525120
					.0280	.0030	09/20/05	525220
					.0233	.0025	09/27/05	525362
					.0239	.0026	10/04/05	525514
					.0106	.0013	10/11/05	525621
					.0274	.0029	10/18/05	525717
					.0362	.0038	10/25/05	525891
					.0211	.0023	11/01/05	526064
					.0251	.0028	11/07/05	526178
					.0199	.0022	11/15/05	526276
					.0263	.0029	11/21/05	526427
					.0224	.0024	11/29/05	526611
					.0234	.0026	12/06/05	526752
					.0285	.0031	12/13/05	526847
					.0203	.0023	12/19/05	526983
					.0279	.0030	12/27/05	527161
			GAMMA SCAN (GELI)					
			BE-7					
					.1115	.0088	01/18/05	520455
					.0889	.0085	02/15/05	520981
					.1015	.0087	03/15/05	521505
					.0921	.0078	04/12/05	522042

Tennessee Valley Authority

Table 1

RADIOACTIVITY IN AIR FILTER

WATTS BAR NUCLEAR PLANT

PCI/M3 - 0.037 BQ/M3

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3205	RM-3 WB	15 MILES NNW						
			GAMMA SCAN (GELI)					
				BE-7				
					.1275	.0133	05/10/05	522640
					.1088	.0095	06/07/05	523171
					.0952	.0091	07/05/05	523725
					.0835	.0081	08/02/05	524348
					.1073	.0106	08/30/05	524881
					.1221	.0107	09/27/05	525396
					.0822	.0078	10/25/05	525928
					.1348	.0126	11/21/05	526461
					.0979	.0107	12/19/05	527017
					.1012	.0201	12/27/05	527161
				BI-214				
					.0103	.0021	01/18/05	520455
					.0179	.0019	02/15/05	520981
					.0105	.0017	04/12/05	522042
					.0071	.0013	05/10/05	522640
					.0015	.0010	07/05/05	523725
					.0020	.0008	08/02/05	524348
					.0025	.0011	08/30/05	524881
					.0049	.0014	09/27/05	525396
					.0074	.0012	10/25/05	525928
					.0303	.0028	11/21/05	526461
					.0072	.0014	12/19/05	527017
					.0385	.0069	12/27/05	527161
				K-40				
					.0109	.0056	02/15/05	520981
					.0178	.0075	04/12/05	522042

Tennessee Valley Authority

Table 1
RADIOACTIVITY IN AIR FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3205	RM-3 WB	15 MILES NNW						
			GAMMA SCAN (GELI)					
				K-40	.0013	.0048	08/02/05	524348
					.0048	.0060	09/27/05	525396
					.0110	.0068	10/25/05	525928
					.0118	.0059	12/19/05	527017
				PB-212				
					.0006	.0007	04/12/05	522042
					.0019	.0007	05/10/05	522640
				PB-214				
					.0107	.0014	01/18/05	520455
					.0181	.0022	02/15/05	520981
					.0078	.0012	04/12/05	522042
					.0067	.0010	05/10/05	522640
					.0017	.0011	06/07/05	523171
					.0030	.0012	07/05/05	523725
					.0031	.0011	08/02/05	524348
					.0027	.0010	08/30/05	524881
					.0053	.0015	09/27/05	525396
					.0075	.0013	10/25/05	525928
					.0324	.0026	11/21/05	526461
					.0090	.0013	12/19/05	527017
					.0395	.0069	12/27/05	527161
				TL-208				
					.0001	.0003	01/18/05	520455
					.0000	.0004	05/10/05	522640

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

Station	Location	Description	Analysis	Nuclide	Activity	Error	Date Collected	Lab Number
2116	RM-2 DAYTON TN	15.0 MILES SW						
			GAMMA SCAN (GELI)					
				BI-214				
					.0194	.0062	01/11/05	520267
					.0147	.0077	02/22/05	521036
					.0314	.0094	03/15/05	521417
					.0318	.0087	04/05/05	521856
					.0213	.0091	05/24/05	522862
					.0225	.0100	05/31/05	522979
					.0264	.0079	06/14/05	523235
					.0209	.0096	06/21/05	523376
					.0135	.0066	06/28/05	523522
					.0276	.0108	08/16/05	524548
					.0112	.0071	09/06/05	524951
					.0119	.0079	10/25/05	525826
					.0265	.0086	11/29/05	526554
					.0345	.0112	12/06/05	526699
					.0370	.0093	12/19/05	526928
				K-40				
					.2351	.0592	03/15/05	521417
					.1850	.0485	07/19/05	523969
					.2786	.0482	09/06/05	524951
					.2063	.0670	12/06/05	526699
					.1762	.0489	12/19/05	526928
			NO ACTIVITY DETECTED					
					.0000	.0000	01/04/05	520158
					.0000	.0000	02/01/05	520685
					.0000	.0000	02/15/05	520894
					.0000	.0000	03/01/05	521188

Tennessee Valley Authority

Table 2

RADIOACTIVITY IN CHARCOAL FILTER

WATTS BAR NUCLEAR PLANT

PCI/M3 - 0.037 BQ/M3

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	RM-2 DAYTON TN	15.0 MILES SW						
			GAMMA SCAN (GELI)					
			NO ACTIVITY DETECTED					
					.0000	.0000	03/29/05	521743
					.0000	.0000	04/12/05	521955
					.0000	.0000	05/03/05	522453
					.0000	.0000	05/10/05	522554
					.0000	.0000	05/17/05	522716
					.0000	.0000	06/07/05	523083
					.0000	.0000	07/12/05	523804
					.0000	.0000	08/02/05	524260
					.0000	.0000	08/23/05	524687
					.0000	.0000	08/30/05	524793
					.0000	.0000	09/13/05	525067
					.0000	.0000	09/20/05	525188
					.0000	.0000	09/27/05	525309
					.0000	.0000	10/11/05	525569
					.0000	.0000	10/18/05	525685
					.0000	.0000	11/01/05	526007
					.0000	.0000	11/15/05	526244
					.0000	.0000	11/21/05	526373
					.0000	.0000	12/27/05	527104
			PB-212					
					.0071	.0050	02/08/05	520801
					.0108	.0043	08/09/05	524423
					.0073	.0042	10/04/05	525457
			PB-214					
					.0125	.0056	12/28/04	520048
					.0240	.0079	01/11/05	520267

Tennessee Valley Authority

Table 2

RADIOACTIVITY IN CHARCOAL FILTER

WATTS BAR NUCLEAR PLANT

PCI/M3 - 0.037 BQ/M3

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	RM-2 DAYTON TN	15.0 MILES SW	GAMMA SCAN (GELI) PB-214					
					.0319	.0084	01/18/05	520368
					.0064	.0048	01/25/05	520538
					.0257	.0064	02/22/05	521036
					.0045	.0057	03/08/05	521312
					.0159	.0060	03/15/05	521417
					.0130	.0053	03/22/05	521614
					.0221	.0077	04/05/05	521856
					.0100	.0062	04/19/05	522096
					.0215	.0073	04/26/05	522309
					.0209	.0072	05/24/05	522862
					.0233	.0093	05/31/05	522979
					.0311	.0090	06/14/05	523235
					.0255	.0077	06/21/05	523376
					.0132	.0060	06/28/05	523522
					.0130	.0040	07/05/05	523638
					.0174	.0070	08/09/05	524423
					.0235	.0119	09/06/05	524951
					.0097	.0038	10/04/05	525457
					.0117	.0053	11/07/05	526125
					.0358	.0090	11/29/05	526554
					.0475	.0117	12/06/05	526699
					.0232	.0106	12/13/05	526815
					.0246	.0080	12/19/05	526928
3101	LM1	0.5 MILES SSW	GAMMA SCAN (GELI) BI-214					

Tennessee Valley Authority
 Table 2
 RADIOACTIVITY IN CHARCOAL FILTER
 WATTS BAR NUCLEAR PLANT
 PCI/M3 - 0.037 BQ/M3
 12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3101	LM1	0.5 MILES SSW	GAMMA SCAN (GELI)	BI-214	.0344	.0101	01/11/05	520283
					.0493	.0106	01/18/05	520396
					.0512	.0115	01/25/05	520568
					.0327	.0084	02/22/05	521066
					.0304	.0077	03/15/05	521447
					.0056	.0055	04/05/05	521872
					.0069	.0057	05/10/05	522582
					.0293	.0077	06/14/05	523265
					.0244	.0061	06/21/05	523398
					.0549	.0124	10/25/05	525864
					.0287	.0081	11/01/05	526037
					.0207	.0089	11/29/05	526584
					.0277	.0085	12/06/05	526722
					.0628	.0131	12/13/05	526831
					.0330	.0121	12/19/05	526959
				K-40	.3005	.0629	03/01/05	521211
					.1994	.0493	03/15/05	521447
					.2771	.0595	04/05/05	521872
					.1533	.0440	05/10/05	522582
					.1696	.0482	11/01/05	526037
					.2681	.0840	12/06/05	526722
			NO ACTIVITY DETECTED		.0000	.0000	01/04/05	520180
					.0000	.0000	02/15/05	520923
					.0000	.0000	03/29/05	521766

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Table 2

RADIOACTIVITY IN CHARCOAL FILTER

WATTS BAR NUCLEAR PLANT

PCI/M3 - 0.037 BQ/M3

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3101	LM1	0.5 MILES SSW						
			GAMMA SCAN (GELI)					
			NO ACTIVITY DETECTED					
					.0000	.0000	04/12/05	521984
					.0000	.0000	05/03/05	522469
					.0000	.0000	05/17/05	522746
					.0000	.0000	05/24/05	522885
					.0000	.0000	05/31/05	522995
					.0000	.0000	06/28/05	523548
					.0000	.0000	07/05/05	523667
					.0000	.0000	07/19/05	523991
					.0000	.0000	08/02/05	524290
					.0000	.0000	08/09/05	524453
					.0000	.0000	08/16/05	524570
					.0000	.0000	08/23/05	524703
					.0000	.0000	08/30/05	524823
					.0000	.0000	09/20/05	525204
					.0000	.0000	09/27/05	525337
					.0000	.0000	10/04/05	525487
					.0000	.0000	10/11/05	525591
					.0000	.0000	11/07/05	526148
					.0000	.0000	11/15/05	526260
					.0000	.0000	12/27/05	527134
			PB-212					
					.0028	.0040	04/26/05	522348
					.0041	.0044	06/07/05	523113
					.0042	.0034	07/12/05	523834
			PB-214					
					.0119	.0067	12/28/04	520078

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Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3101	LM1	0.5 MILES SSW	GAMMA SCAN (GELI)	PB-214				
					.0323	.0076	01/11/05	520283
					.0407	.0109	01/18/05	520396
					.0582	.0125	01/25/05	520568
					.0114	.0055	02/01/05	520707
					.0224	.0077	02/08/05	520817
					.0508	.0152	02/22/05	521066
					.0091	.0063	03/01/05	521211
					.0081	.0061	03/08/05	521328
					.0419	.0111	03/15/05	521447
					.0245	.0080	03/22/05	521644
					.0239	.0070	04/05/05	521872
					.0414	.0091	04/19/05	522126
					.0175	.0071	04/26/05	522348
					.0209	.0062	07/26/05	524159
					.0159	.0069	09/06/05	524981
					.0071	.0074	09/13/05	525090
					.0227	.0099	10/18/05	525701
					.0263	.0060	10/25/05	525864
					.0347	.0087	11/01/05	526037
					.0513	.0147	11/21/05	526403
					.0283	.0103	11/29/05	526584
					.0419	.0110	12/06/05	526722
					.0720	.0094	12/13/05	526831
					.0401	.0105	12/19/05	526959
3102	LM2	0.4 MILES NNE	GAMMA SCAN (GELI)					

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3102	LM2	0.4 MILES NNE						
			GAMMA SCAN (GELI)					
				BI-214				
					.0998	.0152	01/18/05	520400
					.0185	.0084	02/22/05	521070
					.0175	.0093	03/15/05	521451
					.0192	.0092	04/19/05	522130
					.0178	.0077	05/17/05	522750
					.0060	.0059	05/31/05	522998
					.0077	.0071	08/09/05	524457
					.0255	.0076	09/13/05	525094
					.0147	.0081	10/04/05	525491
					.0439	.0097	11/29/05	526588
					.0375	.0107	12/06/05	526726
					.0231	.0090	12/13/05	526834
					.0514	.0125	12/19/05	526963
					.0120	.0065	12/27/05	527138
				K-40				
					.4003	.0581	01/18/05	520400
					.1337	.0405	02/22/05	521070
					.1449	.0392	04/19/05	522130
					.1745	.0353	10/04/05	525491
					.2854	.0653	11/15/05	526263
					.2280	.0471	12/06/05	526726
			NO ACTIVITY DETECTED					
					.0000	.0000	02/01/05	520711
					.0000	.0000	02/08/05	520820
					.0000	.0000	02/15/05	520927
					.0000	.0000	03/08/05	521331

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Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3102	LM2	0.4 MILES NNE						
			GAMMA SCAN (GELI)					
			NO ACTIVITY DETECTED					
					.0000	.0000	03/22/05	521648
					.0000	.0000	03/29/05	521770
					.0000	.0000	04/05/05	521875
					.0000	.0000	04/12/05	521988
					.0000	.0000	05/03/05	522472
					.0000	.0000	05/10/05	522586
					.0000	.0000	05/24/05	522889
					.0000	.0000	06/14/05	523269
					.0000	.0000	06/28/05	523553
					.0000	.0000	07/19/05	523995
					.0000	.0000	09/06/05	524985
					.0000	.0000	09/27/05	525341
					.0000	.0000	10/11/05	525595
					.0000	.0000	11/01/05	526041
			PB-212					
					.0046	.0029	08/23/05	524706
					.0037	.0033	12/13/05	526834
			PB-214					
					.0128	.0067	12/28/04	520082
					.0218	.0099	01/04/05	520184
					.0573	.0082	01/11/05	520286
					.1145	.0143	01/18/05	520400
					.0430	.0086	01/25/05	520572
					.0270	.0056	02/22/05	521070
					.0138	.0076	03/01/05	521215
					.0223	.0081	03/15/05	521451

Tennessee Valley Authority

Table 2

RADIOACTIVITY IN CHARCOAL FILTER

WATTS BAR NUCLEAR PLANT

PCI/M3 - 0.037 BQ/M3

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3102	LM2	0.4 MILES NNE	GAMMA SCAN (GELI)	PB-214				
					.0351	.0097	04/19/05	522130
					.0185	.0086	04/26/05	522352
					.0101	.0067	05/17/05	522750
					.0044	.0045	05/31/05	522998
					.0144	.0060	06/07/05	523117
					.0072	.0089	06/21/05	523402
					.0136	.0078	07/05/05	523671
					.0170	.0146	07/12/05	523838
					.0168	.0075	07/26/05	524162
					.0045	.0048	08/02/05	524294
					.0039	.0068	08/09/05	524457
					.0203	.0070	08/16/05	524574
					.0157	.0088	08/30/05	524827
					.0336	.0094	09/13/05	525094
					.0102	.0053	09/20/05	525207
					.0184	.0056	10/18/05	525704
					.0198	.0076	10/25/05	525868
					.0136	.0064	11/07/05	526152
					.0773	.0156	11/21/05	526407
					.0398	.0083	11/29/05	526588
					.0554	.0109	12/06/05	526726
					.0289	.0068	12/13/05	526834
					.0371	.0114	12/19/05	526963
3106	PM2 SPRING CITY	7.0 MILES NW	GAMMA SCAN (GELI)	BI-214				

Tennessee Valley Authority

Table 2

RADIOACTIVITY IN CHARCOAL FILTER

WATTS BAR NUCLEAR PLANT

PCI/M3 - 0.037 BQ/M3

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3106	PM2 SPRING CITY	7.0 MILES NW						
			GAMMA SCAN (GELI)					
				BI-214				
					.0174	.0097	01/04/05	520187
					.0215	.0087	01/11/05	520288
					.0811	.0171	01/18/05	520403
					.0086	.0059	03/01/05	521218
					.0253	.0099	04/19/05	522133
					.0272	.0086	04/26/05	522355
					.0031	.0084	05/31/05	523000
					.0101	.0084	06/07/05	523120
					.0170	.0089	06/14/05	523272
					.0353	.0108	08/09/05	524460
					.0189	.0070	09/06/05	524988
					.0236	.0085	09/13/05	525097
					.0132	.0084	10/04/05	525494
					.0073	.0061	10/18/05	525706
					.0098	.0071	10/25/05	525871
					.0376	.0150	11/07/05	526155
					.0173	.0088	11/15/05	526265
					.0397	.0141	11/21/05	526410
					.0598	.0140	11/29/05	526591
					.0486	.0119	12/06/05	526729
					.0295	.0092	12/19/05	526966
				K-40				
					.1566	.0475	01/11/05	520288
					.2293	.0518	03/01/05	521218
					.3035	.0662	06/14/05	523272
					.2441	.0678	09/06/05	524988

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Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3106	PM2 SPRING CITY	7.0 MILES NW						
			GAMMA SCAN (GELI)					
				K-40				
					.1253	.0395	10/18/05	525706
					.2482	.0581	11/21/05	526410
					.3447	.0676	11/29/05	526591
					.1379	.0472	12/06/05	526729
			NO ACTIVITY DETECTED					
					.0000	.0000	12/28/04	520085
					.0000	.0000	02/01/05	520714
					.0000	.0000	02/15/05	520930
					.0000	.0000	03/29/05	521773
					.0000	.0000	04/12/05	521991
					.0000	.0000	05/03/05	522474
					.0000	.0000	05/10/05	522589
					.0000	.0000	05/24/05	522892
					.0000	.0000	06/21/05	523405
					.0000	.0000	06/28/05	523556
					.0000	.0000	07/05/05	523674
					.0000	.0000	07/12/05	523841
					.0000	.0000	07/19/05	523998
					.0000	.0000	07/26/05	524164
					.0000	.0000	08/16/05	524577
					.0000	.0000	08/23/05	524708
					.0000	.0000	09/27/05	525344
					.0000	.0000	10/11/05	525598
					.0000	.0000	11/01/05	526044
					.0000	.0000	12/13/05	526836
			PB-212					

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Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3106	PM2 SPRING CITY	7.0 MILES NW						
			GAMMA SCAN (GELI)					
				PB-212	.0003	.0061	03/22/05	521651
					.0024	.0059	11/07/05	526155
				PB-214	.0369	.0150	01/04/05	520187
					.0210	.0086	01/11/05	520288
					.1141	.0170	01/18/05	520403
					.0259	.0078	01/25/05	520575
					.0100	.0090	02/08/05	520822
					.0146	.0083	02/22/05	521073
					.0337	.0163	03/08/05	521333
					.0102	.0056	03/15/05	521454
					.0002	.0059	03/22/05	521651
					.0356	.0100	04/05/05	521877
					.0400	.0106	04/19/05	522133
					.0157	.0076	04/26/05	522355
					.0211	.0075	05/17/05	522753
					.0071	.0055	06/14/05	523272
					.0361	.0132	08/02/05	524297
					.0106	.0062	08/09/05	524460
					.0098	.0068	08/30/05	524830
					.0305	.0089	09/06/05	524988
					.0231	.0054	09/13/05	525097
					.0195	.0072	09/20/05	525209
					.0113	.0059	10/18/05	525706
					.0116	.0065	10/25/05	525871
					.0241	.0079	11/07/05	526155

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Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3106	PM2 SPRING CITY	7.0 MILES NW	GAMMA SCAN (GELI)	PB-214				
					.0126	.0050	11/15/05	526265
					.0643	.0127	11/21/05	526410
					.0371	.0094	11/29/05	526591
					.0566	.0104	12/06/05	526729
					.0421	.0094	12/19/05	526966
					.0124	.0070	12/27/05	527141
3107	PM3	10.4 MILES NNE	GAMMA SCAN (GELI)	BI-214				
					.0070	.0065	01/04/05	520189
					.0567	.0116	01/18/05	520405
					.0224	.0085	02/22/05	521076
					.0112	.0086	03/01/05	521220
					.0446	.0137	03/15/05	521456
					.0199	.0080	04/19/05	522136
					.0154	.0066	05/24/05	522894
					.0076	.0068	09/06/05	524991
					.0066	.0065	09/20/05	525211
					.0344	.0107	10/04/05	525497
					.0217	.0087	11/15/05	526267
					.0389	.0145	11/21/05	526412
					.0618	.0106	11/29/05	526594
					.0337	.0102	12/06/05	526731
					.0306	.0097	12/13/05	526838
					.0369	.0115	12/19/05	526968

K-40

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Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3107	PM3	10.4 MILES NNE						
			GAMMA SCAN (GELI)					
				K-40				
					.2779	.0670	01/18/05	520405
					.2470	.4706	03/15/05	521456
					.2185	.0518	05/03/05	522476
					.2321	.0481	09/06/05	524991
					.2244	.0553	11/29/05	526594
					.2768	.0762	12/19/05	526968
			NO ACTIVITY DETECTED					
					.0000	.0000	12/28/04	520088
					.0000	.0000	01/11/05	520290
					.0000	.0000	01/25/05	520578
					.0000	.0000	02/01/05	520716
					.0000	.0000	02/01/05	520824
					.0000	.0000	03/29/05	521775
					.0000	.0000	04/05/05	521879
					.0000	.0000	05/10/05	522591
					.0000	.0000	05/17/05	522756
					.0000	.0000	05/31/05	523002
					.0000	.0000	06/21/05	523407
					.0000	.0000	06/28/05	523559
					.0000	.0000	07/05/05	523676
					.0000	.0000	07/12/05	523844
					.0000	.0000	07/19/05	524000
					.0000	.0000	07/26/05	524166
					.0000	.0000	08/02/05	524299
					.0000	.0000	08/23/05	524710
					.0000	.0000	09/27/05	525346

Table 2
 RADIOACTIVITY IN CHARCOAL FILTER
 WATTS BAR NUCLEAR PLANT
 PCI/M3 - 0.037 BQ/M3
 12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3107	PM3	10.4 MILES NNE						
			GAMMA SCAN (GELI)					
			NO ACTIVITY DETECTED					
					.0000	.0000	10/25/05	525873
					.0000	.0000	11/01/05	526047
					.0000	.0000	12/27/05	527144
			PB-214					
					.0173	.0063	01/04/05	520189
					.0663	.0107	01/18/05	520405
					.0288	.0138	02/15/05	520932
					.0514	.0093	02/22/05	521076
					.0267	.0084	03/01/05	521220
					.0119	.0059	03/08/05	521335
					.0545	.0114	03/15/05	521456
					.0227	.0068	03/22/05	521654
					.0235	.0086	04/12/05	521993
					.0209	.0063	04/19/05	522136
					.0304	.0116	04/26/05	522357
					.0154	.0075	05/24/05	522894
					.0128	.0068	06/07/05	523122
					.0116	.0061	06/14/05	523275
					.0125	.0081	08/09/05	524463
					.0099	.0062	08/16/05	524579
					.0212	.0077	08/30/05	524832
					.0260	.0089	09/13/05	525099
					.0127	.0058	09/20/05	525211
					.0269	.0095	10/04/05	525497
					.0044	.0073	10/11/05	525600
					.0142	.0067	10/18/05	525708

Tennessee Valley Authority

Table 2

RADIOACTIVITY IN CHARCOAL FILTER

WATTS BAR NUCLEAR PLANT

PCI/M3 - 0.037 BQ/M3

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3107	PM3	10.4 MILES NNE	GAMMA SCAN (GELI)	PB-214				
					.0216	.0079	11/07/05	526157
					.0539	.0107	11/21/05	526412
					.0579	.0120	11/29/05	526594
					.0519	.0105	12/06/05	526731
					.0449	.0099	12/13/05	526838
					.0549	.0128	12/19/05	526968
3108	PM4	7.6 MILES NE/ENE	GAMMA SCAN (GELI)	BI-214				
					.0493	.0090	12/28/04	520091
					.0817	.0154	01/18/05	520407
					.0126	.0071	02/15/05	520934
					.0289	.0086	02/23/05	521079
					.0171	.0082	03/30/05	521777
					.0255	.0091	04/06/05	521881
					.0326	.0113	05/04/05	522478
					.0199	.0094	05/24/05	522896
					.0283	.0076	06/15/05	523278
					.0084	.0086	08/16/05	524581
					.0106	.0060	09/27/05	525348
					.0103	.0067	10/05/05	525500
					.0374	.0110	11/02/05	526050
					.0086	.0073	11/07/05	526159
					.0325	.0110	12/07/05	526733
					.0335	.0087	12/14/05	526840
					.0474	.0115	12/20/05	526970

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Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
- 3108	PM4	7.6 MILES NE/ENE						
			GAMMA SCAN (GELI)					
				K-40				
					.1313	.0604	01/18/05	520407
					.2732	.0899	03/22/05	521657
					.1887	.0407	04/06/05	521881
					.2604	.0403	06/07/05	523124
					.0740	.0439	09/27/05	525348
					.2336	.0366	10/05/05	525500
					.2823	.0494	12/07/05	526733
					.2098	.0534	12/20/05	526970
			NO ACTIVITY DETECTED					
					.0000	.0000	01/04/05	520191
					.0000	.0000	01/26/05	520581
					.0000	.0000	02/02/05	520718
					.0000	.0000	02/09/05	520826
					.0000	.0000	03/09/05	521337
					.0000	.0000	05/10/05	522593
					.0000	.0000	05/17/05	522759
					.0000	.0000	06/21/05	523409
					.0000	.0000	06/28/05	523562
					.0000	.0000	07/05/05	523678
					.0000	.0000	07/12/05	523847
					.0000	.0000	07/19/05	524002
					.0000	.0000	07/26/05	524168
					.0000	.0000	08/02/05	524301
					.0000	.0000	08/10/05	524466
					.0000	.0000	08/23/05	524712
					.0000	.0000	08/30/05	524834

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Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3108	PM4	7.6 MILES NE/ENE						
			GAMMA SCAN (GELI)					
			NO ACTIVITY DETECTED					
					.0000	.0000	09/14/05	525101
					.0000	.0000	10/12/05	525602
					.0000	.0000	10/19/05	525710
					.0000	.0000	10/26/05	525875
					.0000	.0000	11/16/05	526269
					.0000	.0000	12/28/05	527147
			PB-212					
					.0007	.0044	01/18/05	520407
					.0137	.0075	03/15/05	521458
					.0059	.0059	09/07/05	524994
			PB-214					
					.0491	.0096	12/28/04	520091
					.0141	.0053	01/12/05	520292
					.0824	.0153	01/18/05	520407
					.0323	.0087	02/15/05	520934
					.0419	.0109	02/23/05	521079
					.0416	.0104	03/01/05	521222
					.0169	.0067	03/30/05	521777
					.0393	.0104	04/06/05	521881
					.0345	.0084	04/12/05	521995
					.0320	.0109	04/20/05	522139
					.0353	.0110	04/27/05	522359
					.0254	.0070	05/04/05	522478
					.0472	.0090	05/24/05	522896
					.0063	.0057	06/01/05	523004
					.0154	.0090	06/07/05	523124

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Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3108	PM4	7.6 MILES NE/ENE						
			GAMMA SCAN (GELI)					
				PB-214				
					.0213	.0052	06/15/05	523278
					.0091	.0068	08/16/05	524581
					.0196	.0089	09/21/05	525213
					.0203	.0078	10/05/05	525500
					.0500	.0070	11/02/05	526050
					.0275	.0094	11/07/05	526159
					.0430	.0081	11/21/05	526414
					.0512	.0081	11/30/05	526597
					.0476	.0132	12/07/05	526733
					.0223	.0072	12/14/05	526840
					.0528	.0079	12/20/05	526970
3109	PM5 DECATUR	8.0 MILES S						
			GAMMA SCAN (GELI)					
				BI-214				
					.0496	.0106	01/19/05	520410
					.0158	.0070	01/26/05	520584
					.0243	.0077	03/09/05	521339
					.0415	.0075	04/06/05	521883
					.0375	.0110	04/27/05	522362
					.0109	.0075	05/25/05	522899
					.0158	.0067	06/01/05	523006
					.0144	.0092	06/15/05	523281
					.0138	.0068	06/29/05	523565
					.0233	.0075	10/19/05	525712
					.0111	.0046	11/16/05	526271
					.0436	.0119	12/07/05	526736

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Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3109	PM5 DECATUR	8.0 MILES S						
			GAMMA SCAN (GELI)					
				BI-214	.0578	.0137	12/14/05	526842
					.0462	.0143	12/20/05	526973
				K-40	.1815	.0446	01/26/05	520584
					.1948	.0582	04/06/05	521883
					.1591	.0513	04/27/05	522362
					.2156	.0498	08/23/05	524714
					.2040	.0412	08/31/05	524837
					.2244	.0407	10/12/05	525605
					.2418	.0483	10/19/05	525712
					.2698	.0501	11/21/05	526417
					.1389	.0408	12/14/05	526842
					.1899	.0501	12/20/05	526973
			NO ACTIVITY DETECTED		.0000	.0000	12/28/04	520094
					.0000	.0000	01/05/05	520194
					.0000	.0000	02/09/05	520828
					.0000	.0000	02/16/05	520937
					.0000	.0000	03/02/05	521225
					.0000	.0000	03/16/05	521461
					.0000	.0000	03/30/05	521780
					.0000	.0000	04/13/05	521998
					.0000	.0000	04/20/05	522142
					.0000	.0000	05/11/05	522596
					.0000	.0000	05/18/05	522762
					.0000	.0000	06/22/05	523412

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Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3109	PM5 DECATUR	8.0 MILES S						
			GAMMA SCAN (GELI)					
			NO ACTIVITY DETECTED					
					.0000	.0000	07/06/05	523681
					.0000	.0000	07/13/05	523850
					.0000	.0000	07/19/05	524005
					.0000	.0000	07/26/05	524170
					.0000	.0000	08/03/05	524304
					.0000	.0000	08/10/05	524469
					.0000	.0000	08/17/05	524584
					.0000	.0000	09/21/05	525215
					.0000	.0000	09/28/05	525351
					.0000	.0000	10/05/05	525503
					.0000	.0000	11/07/05	526162
					.0000	.0000	12/28/05	527150
				PB-212				
					.0054	.0032	08/31/05	524837
					.0045	.0036	11/02/05	526053
				PB-214				
					.0304	.0108	01/12/05	520294
					.0702	.0128	01/19/05	520410
					.0058	.0058	02/02/05	520721
					.0391	.0125	02/23/05	521082
					.0254	.0066	03/09/05	521339
					.0052	.0069	03/22/05	521660
					.0478	.0128	04/06/05	521883
					.0294	.0080	04/27/05	522362
					.0227	.0059	05/04/05	522480
					.0290	.0084	05/25/05	522899

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Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3109	PM5 DECATUR	8.0 MILES S	GAMMA SCAN (GELI)					
			PB-214					
					.0133	.0052	06/08/05	523127
					.0149	.0093	06/15/05	523281
					.0104	.0057	06/29/05	523565
					.0061	.0053	08/31/05	524837
					.0061	.0049	09/07/05	524997
					.0118	.0062	09/14/05	525104
					.0092	.0054	10/12/05	525605
					.0225	.0058	10/19/05	525712
					.0308	.0070	10/26/05	525878
					.0152	.0047	11/16/05	526271
					.0448	.0118	11/21/05	526417
					.0367	.0071	11/30/05	526600
					.0860	.0152	12/07/05	526736
					.0537	.0081	12/14/05	526842
					.0480	.0126	12/20/05	526973
3203	LM3	1.9 MILES NNE	GAMMA SCAN (GELI)					
			BI-214					
					.0253	.0098	12/28/04	520100
					.0487	.0106	01/11/05	520296
					.1908	.0186	01/18/05	520417
					.0073	.0067	02/15/05	520943
					.0350	.0080	02/22/05	521088
					.0362	.0142	04/05/05	521885
					.0013	.0058	04/19/05	522149
					.0017	.0087	08/23/05	524716

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Table 2

RADIOACTIVITY IN CHARCOAL FILTER

WATTS BAR NUCLEAR PLANT

PCI/M3 - 0.037 BQ/M3

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3203	LM3	1.9 MILES NNE						
			GAMMA SCAN (GELI)					
				BI-214	.0223	.0101	10/25/05	525887
					.0278	.0100	11/07/05	526174
					.0586	.0116	11/21/05	526423
					.1218	.0192	12/06/05	526748
					.0288	.0087	12/13/05	526844
				K-40	.2469	.0441	12/28/04	520100
					.2027	.0615	01/18/05	520417
					.2091	.0637	02/09/05	520830
					.2147	.0408	02/15/05	520943
					.2990	.0690	11/15/05	526273
					.2091	.0374	12/06/05	526748
			NO ACTIVITY DETECTED		.0000	.0000	01/04/05	520206
					.0000	.0000	02/01/05	520734
					.0000	.0000	03/01/05	521237
					.0000	.0000	03/15/05	521467
					.0000	.0000	03/29/05	521792
					.0000	.0000	04/12/05	522004
					.0000	.0000	04/26/05	522378
					.0000	.0000	05/17/05	522768
					.0000	.0000	05/24/05	522911
					.0000	.0000	06/07/05	523133
					.0000	.0000	06/21/05	523425
					.0000	.0000	06/28/05	523568
					.0000	.0000	07/07/05	523687

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Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3203	LM3	1.9 MILES NNE						
			GAMMA SCAN (GELI)					
			NO ACTIVITY DETECTED					
					.0000	.0000	07/12/05	523856
					.0000	.0000	07/19/05	524018
					.0000	.0000	07/26/05	524172
					.0000	.0000	08/02/05	524310
					.0000	.0000	08/09/05	524475
					.0000	.0000	08/16/05	524597
					.0000	.0000	08/30/05	524843
					.0000	.0000	09/13/05	525116
					.0000	.0000	09/20/05	525217
					.0000	.0000	10/04/05	525509
					.0000	.0000	10/11/05	525617
					.0000	.0000	11/01/05	526059
			PB-212					
					.0054	.0052	12/13/05	526844
					.0129	.0051	12/19/05	526979
			PB-214					
					.0362	.0052	12/28/04	520100
					.0353	.0090	01/11/05	520296
					.2315	.0223	01/18/05	520417
					.0212	.0081	01/26/05	520591
					.0349	.0077	02/22/05	521088
					.0244	.0133	03/08/05	521341
					.0187	.0089	03/22/05	521666
					.0322	.0097	04/05/05	521885
					.0193	.0105	05/03/05	522482
					.0111	.0089	05/10/05	522602

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Table 2

RADIOACTIVITY IN CHARCOAL FILTER

WATTS BAR NUCLEAR PLANT

PCI/M3 - 0.037 BQ/M3

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3203	LM3	1.9 MILES NNE						
			GAMMA SCAN (GELI)					
				PB-214				
					.0137	.0061	05/31/05	523008
					.0112	.0071	06/14/05	523287
					.0107	.0049	09/06/05	525003
					.0012	.0053	09/27/05	525358
					.0166	.0072	10/18/05	525714
					.0083	.0055	10/25/05	525887
					.0239	.0073	11/07/05	526174
					.0076	.0048	11/15/05	526273
					.0735	.0125	11/21/05	526423
					.0283	.0097	11/29/05	526606
					.1335	.0199	12/06/05	526748
					.0225	.0057	12/13/05	526844
					.0209	.0090	12/19/05	526979
					.0178	.0065	12/27/05	527156
3204	LM-4 WB	0.9 MILES SE						
			GAMMA SCAN (GELI)					
				BI-214				
					.0234	.0082	12/28/04	520103
					.0179	.0083	01/11/05	520298
					.0877	.0167	01/18/05	520420
					.0119	.0060	01/26/05	520594
					.0097	.0051	02/01/05	520737
					.0093	.0068	03/09/05	521343
					.0172	.0091	03/15/05	521470
					.0179	.0075	04/05/05	521887
					.0222	.0084	04/20/05	522152

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Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3204	LM-4 WB	0.9 MILES SE						
			GAMMA SCAN (GELI)					
				BI-214	.0233	.0083	05/04/05	522484
					.0153	.0079	05/10/05	522605
					.0138	.0066	06/07/05	523136
					.0182	.0077	06/15/05	523290
					.0326	.0064	11/02/05	526062
					.0384	.0172	11/07/05	526177
					.0261	.0118	11/21/05	526426
					.0496	.0114	11/30/05	526609
					.0608	.0117	12/06/05	526751
					.0269	.0115	12/14/05	526846
				K-40	.2119	.0537	12/28/04	520103
					.2541	.0387	01/11/05	520298
					.1652	.0433	01/18/05	520420
					.2154	.0571	03/09/05	521343
					.3571	.0743	12/06/05	526751
			NO ACTIVITY DETECTED		.0000	.0000	01/04/05	520209
					.0000	.0000	02/15/05	520946
					.0000	.0000	02/23/05	521091
					.0000	.0000	03/29/05	521795
					.0000	.0000	04/12/05	522007
					.0000	.0000	05/17/05	522771
					.0000	.0000	05/25/05	522914
					.0000	.0000	06/01/05	523010
					.0000	.0000	06/21/05	523428

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Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3204	LM-4 WB	0.9 MILES SE						
			GAMMA SCAN (GELI)					
			NO ACTIVITY DETECTED					
					.0000	.0000	06/28/05	523571
					.0000	.0000	07/05/05	523690
					.0000	.0000	07/12/05	523859
					.0000	.0000	07/26/05	524174
					.0000	.0000	08/02/05	524313
					.0000	.0000	08/10/05	524478
					.0000	.0000	08/16/05	524600
					.0000	.0000	08/23/05	524718
					.0000	.0000	08/30/05	524846
					.0000	.0000	09/07/05	525006
					.0000	.0000	10/11/05	525620
					.0000	.0000	10/25/05	525890
					.0000	.0000	12/28/05	527159
			PB-212					
					.0012	.0041	02/01/05	520737
					.0010	.0034	07/19/05	524021
					.0076	.0041	09/20/05	525219
			PB-214					
					.0259	.0082	12/28/04	520103
					.0162	.0074	01/11/05	520298
					.1121	.0182	01/18/05	520420
					.0156	.0076	01/26/05	520594
					.0098	.0050	02/01/05	520737
					.0113	.0046	02/09/05	520832
					.0112	.0069	03/01/05	521240
					.0154	.0051	03/09/05	521343

Tennessee Valley Authority

Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3204	LM-4 WB	0.9 MILES SE	GAMMA SCAN (GELI)	PB-214				
					.0306	.0098	03/15/05	521470
					.0331	.0073	03/22/05	521669
					.0126	.0065	04/05/05	521887
					.0207	.0085	04/20/05	522152
					.0214	.0056	04/26/05	522381
					.0187	.0065	05/04/05	522484
					.0139	.0118	05/10/05	522605
					.0177	.0068	06/15/05	523290
					.0192	.0093	09/13/05	525119
					.0138	.0076	09/27/05	525361
					.0206	.0081	10/05/05	525512
					.0195	.0108	10/19/05	525716
					.0263	.0057	11/02/05	526062
					.0237	.0066	11/07/05	526177
					.0010	.0053	11/15/05	526275
					.0479	.0111	11/21/05	526426
					.0747	.0106	11/30/05	526609
					.0565	.0089	12/06/05	526751
					.0492	.0098	12/14/05	526846
					.0512	.0135	12/19/05	526982
3205	RM-3 WB	15 MILES NNW	GAMMA SCAN (GELI)	BI-214				
					.0482	.0132	01/18/05	520423
					.0190	.0086	01/25/05	520597
					.0351	.0198	02/01/05	520740

Tennessee Valley Authority

Table 2

RADIOACTIVITY IN CHARCOAL FILTER

WATTS BAR NUCLEAR PLANT

PCI/M3 - 0.037 BQ/M3

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3205	RM-3 WB	15 MILES NNW						
			GAMMA SCAN (GELI)					
				BI-214				
					.0209	.0074	04/19/05	522155
					.0122	.0062	05/10/05	522608
					.0154	.0070	05/17/05	522774
					.0319	.0084	06/14/05	523293
					.0145	.0062	08/09/05	524481
					.0205	.0079	10/25/05	525893
					.0316	.0102	11/07/05	526180
					.0067	.0048	11/15/05	526277
					.0664	.0172	11/21/05	526429
					.0511	.0091	11/29/05	526612
					.0558	.0120	12/06/05	526754
					.0571	.0204	12/19/05	526985
				K-40				
					.1801	.0488	02/01/05	520740
					.2565	.0469	05/17/05	522774
					.2092	.0510	06/14/05	523293
					.1207	.0545	07/12/05	523862
					.1957	.0529	11/15/05	526277
			NO ACTIVITY DETECTED					
					.0000	.0000	01/04/05	520212
					.0000	.0000	02/08/05	520834
					.0000	.0000	02/15/05	520949
					.0000	.0000	02/22/05	521094
					.0000	.0000	03/01/05	521243
					.0000	.0000	03/08/05	521345
					.0000	.0000	03/15/05	521473

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Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3205	RM-3 WB	15 MILES NNW						
			GAMMA SCAN (GELI)					
			NO ACTIVITY DETECTED					
					.0000	.0000	03/22/05	521672
					.0000	.0000	03/29/05	521798
					.0000	.0000	04/05/05	521889
					.0000	.0000	05/03/05	522486
					.0000	.0000	05/31/05	523012
					.0000	.0000	06/07/05	523139
					.0000	.0000	06/21/05	523431
					.0000	.0000	06/28/05	523574
					.0000	.0000	07/05/05	523693
					.0000	.0000	07/26/05	524176
					.0000	.0000	08/02/05	524316
					.0000	.0000	08/16/05	524603
					.0000	.0000	08/23/05	524720
					.0000	.0000	08/30/05	524849
					.0000	.0000	09/06/05	525009
					.0000	.0000	09/13/05	525122
					.0000	.0000	09/20/05	525221
					.0000	.0000	09/27/05	525364
					.0000	.0000	10/04/05	525515
					.0000	.0000	10/11/05	525623
					.0000	.0000	10/18/05	525718
					.0000	.0000	12/13/05	526848
			PB-212					
					.0041	.0056	05/24/05	522917
			PB-214					
					.0157	.0051	12/28/04	520106

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Table 2
RADIOACTIVITY IN CHARCOAL FILTER
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3205	RM-3 WB	15 MILES NNW						
			GAMMA SCAN (GELI)					
				PB-214				
					.0163	.0070	01/11/05	520300
					.0740	.0155	01/18/05	520423
					.0210	.0055	01/25/05	520597
					.0149	.0041	02/01/05	520740
					.0156	.0074	04/12/05	522010
					.0117	.0044	04/26/05	522384
					.0282	.0079	05/10/05	522608
					.0099	.0049	05/24/05	522917
					.0146	.0054	06/14/05	523293
					.0117	.0075	07/19/05	524024
					.0343	.0091	10/25/05	525893
					.0377	.0100	11/01/05	526065
					.0329	.0089	11/07/05	526180
					.1042	.0184	11/21/05	526429
					.0512	.0117	11/29/05	526612
					.0572	.0112	12/06/05	526754
					.0531	.0122	12/19/05	526985
					.0096	.0043	12/27/05	527162

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Table 3
 RADIOACTIVITY IN ATMOSPHERIC MOISTURE
 WATTS BAR NUCLEAR PLANT
 PCI/M3 - 0.037 BQ/M3
 12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	RM-2 DAYTON TN	15.0 MILES SW						
			TRITIUM					
					.4210	.4804	01/04/05	520157
					.7641	.7037	01/18/05	520367
					.5241	.4491	02/01/05	520684
					.5030	.4262	02/15/05	520893
					.0421	.4223	03/01/05	521187
					.4350	.3841	03/15/05	521416
					.2825	.5197	03/29/05	521742
					.6108	.6395	04/12/05	521954
					.9604	.5839	04/26/05	522308
					1.7639	.6704	05/10/05	522553
					1.9294	.9352	05/24/05	522861
					1.8571	.9413	06/07/05	523082
					2.8403	1.2546	06/21/05	523375
					.3842	1.2139	07/05/05	523637
					2.1479	.9799	07/19/05	523968
					- .2720	.9111	08/02/05	524259
					.7191	.8227	08/16/05	524547
					- .5275	1.6067	08/30/05	524792
					.4032	.9881	09/13/05	525066
					- 1.4937	.9618	09/27/05	525308
					.7077	.9107	10/11/05	525568
					1.9564	.9928	10/25/05	525825
					.4917	.6316	11/07/05	526124
					.6904	.7163	11/21/05	526372
					.1408	.5675	12/06/05	526698
					.4368	.4323	12/19/05	526927

Tennessee Valley Authority
Table 3
RADIOACTIVITY IN ATMOSPHERIC MOISTURE
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3101	LM1	0.5 MILES SSW						
			TRITIUM					
					.2222	.4508	01/04/05	520179
					.8876	.5036	01/18/05	520395
					1.9023	.4598	02/01/05	520706
					1.0341	.4444	02/15/05	520922
					.5751	.4372	03/01/05	521210
					1.4206	.4259	03/15/05	521446
					3.6439	.6285	03/29/05	521765
					1.2462	.5618	04/12/05	521983
					1.5772	.6097	04/26/05	522347
					1.4537	.6426	05/10/05	522581
					3.7289	1.0543	05/24/05	522884
					2.5216	.9491	06/07/05	523112
					3.9721	1.2777	06/21/05	523397
					1.2708	1.3542	07/05/05	523666
					1.9823	1.0670	07/19/05	523990
					1.0930	.9883	08/02/05	524289
					2.2101	1.0588	08/16/05	524569
					- .4717	1.4881	08/30/05	524822
					2.9704	1.1039	09/13/05	525089
					- .0280	.9947	09/27/05	525336
					2.8900	1.0438	10/11/05	525590
					2.8337	.9881	10/25/05	525863
					1.7999	.6563	11/07/05	526147
					1.9246	.7365	11/21/05	526402
					- .3291	.5458	12/06/05	526721
					.9885	.4705	12/19/05	526958

Tennessee Valley Authority

Table 3
RADIOACTIVITY IN ATMOSPHERIC MOISTURE
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3102	LM2	0.4 MILES NNE						
			TRITIUM					
					1.4142	.4888	01/04/05	520183
					.7730	.5121	01/18/05	520399
					1.0675	.4649	02/01/05	520710
					.7013	.4166	02/15/05	520926
					.8368	.4402	03/01/05	521214
					2.0909	.4450	03/15/05	521450
					.2186	.5215	03/29/05	521769
					.7219	.6389	04/12/05	521987
					2.1462	.6454	04/26/05	522351
					1.7519	.6505	05/10/05	522585
					2.9047	.9798	05/24/05	522888
					3.5097	.9866	06/07/05	523116
					4.8622	1.5142	06/21/05	523401
					1.9206	1.4700	07/05/05	523670
					.6983	1.4801	07/19/05	523994
					.3524	1.1916	08/02/05	524293
					.7766	1.6125	08/30/05	524826
					2.7479	1.0675	09/13/05	525093
					.8231	1.0245	09/27/05	525340
					1.3857	.9992	10/11/05	525594
					3.0012	.9705	10/25/05	525867
					1.4618	.6114	11/07/05	526151
					3.2615	1.3547	11/21/05	526406
					.2406	.5488	12/06/05	526725
					.8744	.4374	12/19/05	526962

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Table 3
RADIOACTIVITY IN ATMOSPHERIC MOISTURE
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3106	PM2 SPRING CITY	7.0 MILES NW						
			TRITIUM					
					.4465	.4517	01/04/05	520186
					- .8535	.4718	01/18/05	520402
					.3835	.4353	02/01/05	520713
					.6389	.3962	02/15/05	520929
					.0429	.4303	03/01/05	521217
					.4033	.3560	03/15/05	521453
					- .4877	.4827	03/29/05	521772
					.0089	.6280	04/12/05	521990
					.8174	.5663	04/26/05	522354
					1.6078	.6449	05/10/05	522588
					2.1622	.8843	05/24/05	522891
					2.0726	.8864	06/07/05	523119
					- .0504	1.1329	06/21/05	523404
					.5574	1.3348	07/05/05	523673
					2.0992	1.1136	07/19/05	523997
					- 1.8266	1.0363	08/02/05	524296
					2.9444	1.0711	08/16/05	524576
					.5026	1.4442	08/30/05	524829
					.9968	.9973	09/13/05	525096
					- 1.1266	.9093	09/27/05	525343
					2.2036	1.0019	10/11/05	525597
					2.1069	.9498	10/25/05	525870
					1.5830	.6177	11/07/05	526154
					1.9985	.7198	11/21/05	526409
					.6432	.5288	12/06/05	526728
					.2934	.4014	12/19/05	526965

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Table 3
RADIOACTIVITY IN ATMOSPHERIC MOISTURE
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3109	PM5 DECATUR	8.0 MILES S						
			TRITIUM					
					.8243	.4265	01/05/05	520193
					.1949	.4628	01/19/05	520409
					.3055	.4213	02/02/05	520720
					.7133	.4237	02/16/05	520936
					.3832	.4211	03/02/05	521224
					.5390	.3686	03/16/05	521460
					- .0578	.5122	03/30/05	521779
					- .1319	.6209	04/13/05	521997
					.9412	.5769	04/27/05	522361
					1.3767	.6419	05/11/05	522595
					1.5054	.8488	05/25/05	522898
					2.6418	.9479	06/08/05	523126
					2.0949	1.2808	06/22/05	523411
					1.1101	1.3221	07/06/05	523680
					.7487	.9779	07/19/05	524004
					- .7459	.8998	08/03/05	524303
					1.1349	.8574	08/17/05	524583
					- .1363	2.0115	08/31/05	524836
					.4653	1.0032	09/14/05	525103
					- .6549	1.1266	09/28/05	525350
					.1087	1.0638	10/12/05	525604
					1.2729	.9060	10/26/05	525877
					1.2096	.5900	11/07/05	526161
					.5918	.6360	11/21/05	526416
					.3943	.5266	12/07/05	526735
					.4058	.4072	12/20/05	526972

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Table 3

RADIOACTIVITY IN ATMOSPHERIC MOISTURE

WATTS BAR NUCLEAR PLANT

PCI/M3 - 0.037 BQ/M3

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3203	LM3	1.9 MILES NNE						
				TRITIUM				
					1.0998	.4752	01/04/05	520205
					.5806	.5026	01/18/05	520416
					.8830	.4698	02/01/05	520733
					.8830	.4235	02/15/05	520942
					.4355	.4217	03/01/05	521236
					1.5817	.4183	03/15/05	521466
					.7288	.5444	03/29/05	521791
					.7191	.5854	04/12/05	522003
					1.6559	.6011	04/26/05	522377
					1.6588	.6792	05/10/05	522601
					1.9231	.9093	05/24/05	522910
					2.7642	1.0311	06/07/05	523132
					3.3445	1.2568	06/21/05	523424
					.7595	1.1086	07/05/05	523686
					2.1833	.9728	07/19/05	524017
					.2178	.8069	08/02/05	524309
					1.8936	.9424	08/16/05	524596
					1.4947	1.3136	08/30/05	524842
					1.3557	.9870	09/13/05	525115
					.3903	.9850	09/27/05	525357
					2.0412	.9973	10/11/05	525616
					2.1226	.9231	10/25/05	525886
					1.7910	.6392	11/07/05	526173
					1.9532	.7059	11/21/05	526422
					.9328	.5690	12/06/05	526747
					.4876	.4246	12/19/05	526978

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Table 3
RADIOACTIVITY IN ATMOSPHERIC MOISTURE
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3204	LM-4 WB	0.9 MILES SE						
			TRITIUM					
					.7765	.4687	01/04/05	520208
					.0969	.5114	01/18/05	520419
					1.0377	.4683	02/01/05	520736
					.8498	.4489	02/15/05	520945
					.0186	.4359	03/01/05	521239
					.8504	.3720	03/15/05	521469
					.1648	.5117	03/29/05	521794
					.0183	.6478	04/12/05	522006
					.6106	.5547	04/26/05	522380
					1.5155	.7110	05/10/05	522604
					2.8474	.9605	05/25/05	522913
					1.9187	1.0596	06/07/05	523135
					3.1121	1.3670	06/21/05	523427
					1.1202	1.2837	07/05/05	523689
					.9051	.9467	07/19/05	524020
					.0417	.9818	08/02/05	524312
					1.6419	.8621	08/16/05	524599
					.9738	1.2150	08/30/05	524845
					1.3057	.9506	09/13/05	525118
					- .6618	.8031	09/27/05	525360
					- .1829	.9595	10/11/05	525619
					2.4530	1.0395	10/25/05	525889
					.7946	.7041	11/07/05	526176
					.9729	.7218	11/21/05	526425
					.6975	.6291	12/06/05	526750
					.4475	.4428	12/19/05	526981

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Table 3
RADIOACTIVITY IN ATMOSPHERIC MOISTURE
WATTS BAR NUCLEAR PLANT
PCI/M3 - 0.037 BQ/M3
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3205	RM-3 WB	15 MILES NNW						
			TRITIUM					
					- .3390	.4171	01/04/05	520211
					- .8942	.4605	01/18/05	520422
					.7472	.3975	02/01/05	520739
					.4778	.3813	02/15/05	520948
					- .2459	.3886	03/01/05	521242
					- .1837	.3352	03/15/05	521472
					- 1.0963	.4789	03/29/05	521797
					.1620	.5767	04/12/05	522009
					.1706	.5578	04/26/05	522383
					1.2580	.6170	05/10/05	522607
					.3855	.8444	05/24/05	522916
					1.5801	.9491	06/07/05	523138
					2.9854	1.2898	06/21/05	523430
					- .2195	1.3779	07/05/05	523692
					2.7926	1.0995	07/19/05	524023
					.2251	1.0641	08/02/05	524315
					1.1762	1.0422	08/16/05	524602
					- .0987	1.4570	08/30/05	524848
					- .0825	.9689	09/13/05	525121
					.4548	.9874	09/27/05	525363
					- .6899	.9352	10/11/05	525622
					1.8533	.9608	10/25/05	525892
					1.0142	.7521	11/07/05	526179
					.3460	.6870	11/21/05	526428
					- .1611	.5257	12/06/05	526753
					.8830	.4033	12/19/05	526984

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Table 4
RADIOACTIVITY IN MILK
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2215	KYLE FARM	11.6 MILES ENE						
			IODINE-131					
					- .0188	.0442	01/04/05	520162
					- .0194	.0456	01/18/05	520378
					.0103	.0387	02/01/05	520689
					.0445	.0771	02/15/05	520904
					.0617	.0643	03/01/05	521192
					.0565	.0533	03/15/05	521429
					.0561	.0585	03/29/05	521747
					.0536	.0559	04/12/05	521965
					.0078	.0500	04/26/05	522319
					.0542	.0565	05/10/05	522564
					.0119	.0444	05/24/05	522867
					.0312	.0521	06/07/05	523095
					.0431	.0748	06/21/05	523380
					.0758	.0914	07/05/05	523649
					- .0159	.0504	07/19/05	523973
					.0441	.0764	08/02/05	524272
					.0318	.0531	08/16/05	524552
					.0001	.0690	08/30/05	524805
					.0582	.0607	09/13/05	525071
					.0434	.0752	09/27/05	525319
					- .0115	.0362	10/11/05	525573
					- .0212	.0637	10/25/05	525842
					.0110	.0411	11/07/05	526129
					.0488	.0816	11/21/05	526384
					.0075	.0483	12/06/05	526703
					- .0174	.0410	12/19/05	526941

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Table 4
RADIOACTIVITY IN MILK
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2215	KYLE FARM	11.6 MILES ENE)						
			GAMMA SCAN (GELI)					
				AC-228				
					7.3837	4.8079	11/07/05	526129
					6.0170	4.1913	12/19/05	526941
				BI-214				
					.9397	3.6422	01/04/05	520162
					27.4740	4.3258	01/18/05	520378
					2.3910	3.1652	02/01/05	520689
					1.4222	2.1940	03/15/05	521429
					3.4435	2.5611	04/26/05	522319
					3.8285	2.9835	05/10/05	522564
					6.1102	2.4172	05/24/05	522867
					7.3738	3.8111	06/07/05	523095
					2.0152	2.3482	07/05/05	523649
					3.0696	2.9850	08/02/05	524272
					1.3609	2.1833	09/13/05	525071
					5.8530	2.7507	10/25/05	525842
					16.3744	4.1952	11/21/05	526384
					19.9393	5.2872	12/19/05	526941
				K-40				
					1379.0888	86.3178	01/04/05	520162
					1378.6408	89.0935	01/18/05	520378
					1214.8385	150.1813	02/01/05	520689
					1278.7552	75.9393	02/15/05	520904
					1343.7646	91.5128	03/01/05	521192
					1318.8486	78.4707	03/15/05	521429
					1309.3449	76.5283	03/29/05	521747
					1332.7041	85.2023	04/12/05	521965

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Table 4
RADIOACTIVITY IN MILK
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2215	KYLE FARM	11.6 MILES ENE	GAMMA SCAN (GELI)					
			K-40					
					1275.0517	82.7331	04/26/05	522319
					1288.2601	87.8039	05/10/05	522564
					1272.3532	92.8432	05/24/05	522867
					1351.3171	93.6265	06/07/05	523095
					1324.1134	86.4689	06/21/05	523380
					1370.3537	91.4256	07/05/05	523649
					1299.0545	88.4187	07/19/05	523973
					1309.5807	82.4607	08/02/05	524272
					1239.7437	86.2177	08/16/05	524552
					1349.2541	76.2535	08/30/05	524805
					1235.2311	76.1938	09/13/05	525071
					1260.3973	85.0844	09/27/05	525319
					1285.1403	86.7308	10/11/05	525573
					1239.9808	79.7162	10/25/05	525842
					1418.8903	97.1969	11/07/05	526129
					1321.9930	91.7301	11/21/05	526384
					1281.6119	87.3216	12/06/05	526703
					1382.9094	83.8729	12/19/05	526941
			PB-212					
					1.6360	1.8495	03/15/05	521429
					1.0833	1.7136	05/10/05	522564
					1.0384	1.5273	08/16/05	524552
			PB-214					
					9.8597	3.6188	01/18/05	520378
					9.8737	2.2224	03/15/05	521429
					2.3041	3.0019	05/24/05	522867

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Table 4

RADIOACTIVITY IN MILK WATTS BAR NUCLEAR PLANT

PCI/L - 0.037 BQ/L

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2215	KYLE FARM	11.6 MILES ENE						
			GAMMA SCAN (GELI)					
				PB-214				
					1.9986	2.6759	07/05/05	523649
					3.2639	1.9713	08/02/05	524272
					.2871	3.0460	08/30/05	524805
					2.1693	2.9462	09/13/05	525071
					1.8209	2.7818	10/25/05	525842
					13.5262	3.4538	11/21/05	526384
					11.2892	3.0695	12/19/05	526941
				TL-208				
					.5454	1.0907	07/19/05	523973
					.8011	.9299	08/16/05	524552
					2.9880	1.6250	11/21/05	526384
			SR 89					
					.6272	.9240	03/01/05	521192
					.9224	.9876	05/24/05	522867
					.6194	.8863	08/16/05	524552
					.1390	.8244	10/25/05	525842
			SR 90					
					.1976	.5387	03/01/05	521192
					.1125	.5793	05/24/05	522867
					1.0174	.5781	08/16/05	524552
					.5661	.5165	10/25/05	525842
2263	E. HOUSLEY FARM	24.0 MILES SSW						
			IODINE-131					
					.0148	.0469	01/05/05	520177

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Table 4
RADIOACTIVITY IN MILK
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2263	E. HOUSLEY FARM	24.0 MILES SSW						
				IODINE-131				
					.0001	.0716	01/19/05	520393
					.0515	.0537	02/02/05	520704
					.0307	.0513	02/16/05	520919
					.0438	.0759	03/02/05	521207
					.0103	.0385	03/16/05	521444
					.0001	.0711	03/30/05	521763
					.0568	.0535	04/13/05	521981
					.0491	.0852	04/27/05	522338
					.0001	.0681	05/11/05	522579
					.0534	.0557	05/25/05	522882
					.0298	.0498	06/08/05	523110
			-		.0114	.0360	06/22/05	523395
			-		.0124	.0393	07/06/05	523664
			-		.0131	.0416	07/20/05	523988
			-		.0111	.0351	08/03/05	524287
					.0199	.0659	08/17/05	524567
			-		.0105	.0333	08/31/05	524820
					.0001	.0643	09/14/05	525086
			-		.0400	.0567	09/28/05	525334
					.0295	.0493	10/12/05	525588
					.0583	.0550	10/26/05	525861
					.0607	.0732	11/07/05	526144
			-		.0315	.0499	11/21/05	526399
					.0216	.0716	12/07/05	526718
			-		.0995	.0617	12/20/05	526956
				GAMMA SCAN (GELI)				

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Table 4
RADIOACTIVITY IN MILK
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2263	E. HOUSLEY FARM	24.0 MILES SSW						
			GAMMA SCAN (GELI)					
				AC-228				
					7.5131	4.6030	11/21/05	526399
					8.0673	5.2310	12/20/05	526956
				BI-212				
					35.8198	13.5019	01/05/05	520177
				BI-214				
					7.8494	3.2033	01/05/05	520177
					20.7553	4.3202	01/19/05	520393
					2.2953	8.3495	02/02/05	520704
					3.3182	2.5048	02/16/05	520919
					3.3999	2.2491	03/02/05	521207
					7.9708	3.2860	04/27/05	522338
					.9463	5.7196	05/25/05	522882
					2.9174	2.9710	06/22/05	523395
					1.4621	6.4014	07/06/05	523664
					4.4811	3.6981	07/20/05	523988
					2.7866	2.6777	08/03/05	524287
					2.0884	3.5264	08/17/05	524567
					8.1228	2.9830	08/31/05	524820
					10.4993	4.1552	09/14/05	525086
					4.7661	2.5570	09/28/05	525334
					2.1345	1.9057	10/12/05	525588
					14.1131	3.8714	10/26/05	525861
					31.8520	5.2800	11/21/05	526399
					26.9529	5.1553	12/20/05	526956
				K-40				
					1286.4733	93.2966	01/05/05	520177

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Table 4
RADIOACTIVITY IN MILK
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2263	E. HOUSLEY FARM	24.0 MILES SSW						
			GAMMA SCAN (GELI)					
				K-40				
					1267.1940	82.6833	01/19/05	520393
					1330.0329	93.3850	02/02/05	520704
					1225.6655	89.3049	02/16/05	520919
					1263.9031	91.0557	03/02/05	521207
					1257.2277	108.9609	03/16/05	521444
					1353.0514	98.8922	03/30/05	521763
					1364.3860	107.3095	04/13/05	521981
					1318.4254	93.9659	04/27/05	522338
					1380.3006	108.9781	05/11/05	522579
					1253.2220	101.2864	05/25/05	522882
					1259.4583	105.8466	06/08/05	523110
					1322.9813	85.9007	06/22/05	523395
					1219.9088	90.3398	07/06/05	523664
					1245.8237	85.2331	07/20/05	523988
					1266.6767	86.2266	08/03/05	524287
					1184.8266	103.4902	08/17/05	524567
					1282.1985	84.5316	08/31/05	524820
					1331.5656	92.2775	09/14/05	525086
					1345.6032	96.2600	09/28/05	525334
					1295.7691	91.6450	10/12/05	525588
					1331.0258	100.0572	10/26/05	525861
					1350.3785	94.1919	11/07/05	526144
					1321.0487	91.6967	11/21/05	526399
					1264.3031	95.5923	12/07/05	526718
					1280.9781	92.5834	12/20/05	526956

PB-212

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Table 4
 RADIOACTIVITY IN MILK
 WATTS BAR NUCLEAR PLANT
 PCI/L - 0.037 BQ/L
 12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2263	E. HOUSLEY FARM	24.0 MILES SSW						
			GAMMA SCAN (GELI)					
				PB-212				
					1.0113	2.0280	01/05/05	520177
					2.0227	1.8804	03/02/05	521207
					2.6703	2.4785	05/11/05	522579
					3.8409	1.7437	08/31/05	524820
					.7310	1.3895	10/12/05	525588
					2.3483	3.7938	11/07/05	526144
				PB-214				
					8.9820	2.8437	01/05/05	520177
					16.8586	3.6621	01/19/05	520393
					1.3747	2.5989	02/02/05	520704
					4.4310	2.3206	02/16/05	520919
					4.1462	3.7151	03/02/05	521207
					5.0369	2.2175	04/27/05	522338
					.6573	3.6652	08/31/05	524820
					7.5053	3.8663	09/14/05	525086
					5.1531	3.2399	09/28/05	525334
					.5726	2.1819	10/12/05	525588
					7.9324	3.5589	10/26/05	525861
					12.4200	3.4850	11/21/05	526399
					11.6144	4.6907	12/07/05	526718
					16.7780	4.0909	12/20/05	526956
				TL-208				
					1.5008	.9668	02/16/05	520919
					2.6275	1.2905	03/02/05	521207
					1.4721	1.1757	08/17/05	524567

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Table 4
RADIOACTIVITY IN MILK
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2004 - 12/30/2005

Station	Location	Description	Analysis	Nuclide	Activity	Error	Date Collected	Lab Number
2263	E. HOUSLEY FARM	24.0 MILES SSW	SR 89.					
					- .5613	1.0008	03/02/05	521207
					.3131	.9079	05/25/05	522882
					.1412	.9018	08/17/05	524567
					.4389	.9549	10/26/05	525861
			SR 90					
					.9973	.6523	03/02/05	521207
					.8373	.5526	05/25/05	522882
					.7474	.5859	08/17/05	524567
					.1022	.5852	10/26/05	525861
3115	LAYMAN FARM	1.3 MILES SSW	IODINE-131					
					.0001	.0872	01/05/05	520195
					.0388	.0550	01/19/05	520411
					.0448	.0778	02/02/05	520722
					.0575	.0599	02/16/05	520938
					.0313	.0523	03/02/05	521226
					.0105	.0392	03/16/05	521462
					.0302	.0428	03/30/05	521781
					.0535	.0558	04/13/05	521999
					- .0116	.0368	04/27/05	522363
					.0119	.0444	05/11/05	522597
					- .0202	.0607	05/25/05	522900
					.0001	.0677	06/08/05	523128
					- .0237	.0711	06/21/05	523413
					.0088	.0563	07/05/05	523682

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Table 4
RADIOACTIVITY IN MILK
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3115	LAYMAN FARM	1.3 MILES SSW						
				IODINE-131				
					- .0085	.0532	07/19/05	524006
					- .0174	.0409	08/02/05	524305
					.0111	.0415	08/17/05	524585
					.0071	.0453	08/30/05	524838
					.0069	.0440	09/13/05	525105
					.0123	.0461	09/27/05	525352
					.0208	.0689	10/11/05	525606
					.0557	.0581	10/25/05	525879
					.0234	.0777	11/07/05	526163
					.0756	.0789	11/21/05	526418
					- .0162	.0381	12/07/05	526737
					- .0137	.0432	12/20/05	526974
				GAMMA SCAN (GELI)				
				AC-228				
					6.1878	4.1530	01/19/05	520411
					5.8095	4.2510	03/16/05	521462
					3.1676	3.4985	08/17/05	524585
					4.6171	5.4925	12/20/05	526974
				BI-214				
					4.1431	4.8185	01/05/05	520195
					17.1528	3.5594	01/19/05	520411
					2.5826	2.9447	02/02/05	520722
					1.2960	5.8331	02/16/05	520938
					6.1918	2.4218	03/02/05	521226
					3.1837	2.6009	03/16/05	521462
					.8846	5.4152	04/27/05	522363

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Table 4
RADIOACTIVITY IN MILK
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3115	LAYMAN FARM	1.3 MILES SSW						
			GAMMA SCAN (GELI)					
				BI-214				
					.7795	2.9968	05/11/05	522597
					4.7523	2.6718	05/25/05	522900
					4.6622	3.0645	07/05/05	523682
					2.5083	2.6380	08/02/05	524305
					2.7163	2.6718	08/17/05	524585
					31.2350	4.3526	08/30/05	524838
					7.0286	2.9892	09/13/05	525105
					6.0320	2.6746	10/11/05	525606
					4.4210	3.1869	10/25/05	525879
					11.6074	3.3919	11/07/05	526163
					19.2008	5.7550	11/21/05	526418
					17.2918	3.6096	12/07/05	526737
					15.6237	4.0675	12/20/05	526974
				K-40				
					1415.7148	96.3234	01/05/05	520195
					1470.0307	89.2183	01/19/05	520411
					1401.0612	101.2543	02/02/05	520722
					1220.4234	96.2148	02/16/05	520938
					1476.7998	98.4778	03/02/05	521226
					1443.8255	137.2107	03/16/05	521462
					1309.3601	92.1791	03/30/05	521781
					1360.4923	78.4835	04/13/05	521999
					1296.2637	101.6214	04/27/05	522363
					1351.7287	81.0786	05/11/05	522597
					1374.1347	86.2817	05/25/05	522900
					1426.8081	102.8986	06/08/05	523128

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Table 4
RADIOACTIVITY IN MILK
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3115	LAYMAN FARM	1.3 MILES SSW						
			GAMMA SCAN (GELI)					
				K-40				
					1310.3217	98.8023	06/21/05	523413
					1331.0940	95.1356	07/05/05	523682
					1409.7280	80.7188	07/19/05	524006
					1378.5650	116.0913	08/02/05	524305
					1306.5599	88.5761	08/17/05	524585
					1391.4519	97.2632	08/30/05	524838
					1353.6468	80.3604	09/13/05	525105
					1316.0387	93.1937	09/27/05	525352
					1410.5954	93.7961	10/11/05	525606
					1480.0817	91.9510	10/25/05	525879
					661.3784	55.5319	11/07/05	526163
					1392.8606	102.1968	11/21/05	526418
					1454.1626	100.1474	12/07/05	526737
					1481.9016	110.5794	12/20/05	526974
			PB-212					
					.0006	2.9655	05/25/05	522900
					.4409	1.5142	08/17/05	524585
					3.8886	2.2440	08/30/05	524838
					3.4663	2.3763	12/07/05	526737
			PB-214					
					3.6607	2.0298	01/05/05	520195
					11.7873	3.3538	01/19/05	520411
					1.3966	2.2627	02/02/05	520722
					2.6081	1.8536	03/02/05	521226
					1.6021	2.7003	03/16/05	521462
					.9148	2.4270	04/13/05	521999

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Table 4
RADIOACTIVITY IN MILK
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3115	LAYMAN FARM	1.3 MILES SSW						
			GAMMA SCAN (GELI)					
				PB-214				
					.2027	2.0589	05/25/05	522900
					2.3315	2.4015	07/05/05	523682
					.5261	2.7434	08/02/05	524305
					14.6711	3.4403	08/30/05	524838
					1.3783	3.2740	09/13/05	525105
					3.0422	3.5157	09/27/05	525352
					4.5829	3.4298	10/25/05	525879
					3.0684	6.9977	11/07/05	526163
					14.2807	4.5530	11/21/05	526418
					8.2416	3.2033	12/07/05	526737
					12.2118	3.6275	12/20/05	526974
				TL-208				
					.0185	1.2703	05/25/05	522900
					1.7157	1.1017	11/07/05	526163
					3.6272	2.0496	12/20/05	526974
			SR 89					
					.5858	.7854	03/02/05	521226
					.0015	.6908	05/25/05	522900
					.2824	.9156	08/17/05	524585
					.2191	.8673	10/25/05	525879
			SR 90					
					1.1899	.5340	03/02/05	521226
					1.0169	.4437	05/25/05	522900
					.3102	.5962	08/17/05	524585
					.4096	.5348	10/25/05	525879

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Table 4

RADIOACTIVITY IN MILK WATTS BAR NUCLEAR PLANT

PCI/L - 0.037 BQ/L

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3116	MULLINS FARM	3.7 M. ESE						
			IODINE-131					
					.0126	.0470	01/05/05	520197
					.0384	.0544	01/19/05	520412
					.0431	.0611	02/02/05	520724
					.0618	.0644	02/16/05	520939
					.0122	.0456	03/02/05	521228
					.0313	.0523	03/16/05	521463
					.0572	.0690	03/30/05	521783
					.0206	.0682	04/13/05	522000
					.0851	.0888	04/27/05	522365
					.0209	.0629	05/11/05	522598
					.0342	.0484	05/25/05	522902
					.0388	.0550	06/08/05	523129
					.0117	.0437	06/21/05	523415
					.0001	.0655	07/06/05	523683
					.0585	.0610	07/20/05	524008
					.0206	.0682	08/03/05	524306
					.0634	.0661	08/17/05	524587
					.0424	.0601	08/31/05	524839
					.0458	.0650	09/14/05	525107
					.0543	.0513	09/28/05	525354
					.0109	.0407	10/12/05	525608
					.0001	.0658	10/26/05	525880
					.0337	.0478	11/07/05	526165
					.0425	.0738	11/21/05	526419
					.0208	.0689	12/07/05	526739
					.0075	.0480	12/19/05	526975

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Table 4
RADIOACTIVITY IN MILK
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3116	MULLINS FARM	3.7 M. ESE						
			GAMMA SCAN (GELI)					
				AC-228				
					7.3599	3.9729	05/25/05	522902
					16.0222	5.1269	06/21/05	523415
				BI-214				
					13.2105	3.3426	01/19/05	520412
					6.6809	2.8130	02/02/05	520724
					2.7037	3.0171	03/02/05	521228
					1.3925	2.9032	03/16/05	521463
					8.6267	7.2376	04/13/05	522000
					2.2271	2.5338	04/27/05	522365
					4.6638	2.9334	06/08/05	523129
					1.0397	3.4337	06/21/05	523415
					.0592	3.1832	08/17/05	524587
					2.6384	3.2976	08/31/05	524839
					4.7943	3.6270	09/28/05	525354
					39.8795	15.0962	10/12/05	525608
					9.1701	3.9950	10/26/05	525880
					15.7122	4.3742	11/21/05	526419
					16.8574	5.3386	12/07/05	526739
					13.1695	4.7229	12/19/05	526975
				K-40				
					1244.9378	103.7871	01/05/05	520197
					1377.4015	97.2475	01/19/05	520412
					1352.1672	93.4079	02/02/05	520724
					1336.4647	88.6723	02/16/05	520939
					1287.4909	79.4475	03/02/05	521228
					1256.4549	86.0798	03/16/05	521463

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Table 4
RADIOACTIVITY IN MILK
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3116	MULLINS FARM	3.7 M. ESE						
			GAMMA SCAN (GELI)					
				K-40				
					1297.6618	86.2419	03/30/05	521783
					1240.8707	77.2372	04/13/05	522000
					1288.2758	85.0905	04/27/05	522365
					1347.4417	82.8084	05/11/05	522598
					1314.9644	90.1413	05/25/05	522902
					1372.2708	107.2463	06/08/05	523129
					1407.1013	81.7273	06/21/05	523415
					1375.9625	90.2858	07/06/05	523683
					1432.1678	100.4351	07/20/05	524008
					1409.2687	119.8486	08/03/05	524306
					1431.0301	99.9262	08/17/05	524587
					1528.1677	95.4375	08/31/05	524839
					1336.6691	94.7444	09/14/05	525107
					1320.4542	95.4488	09/28/05	525354
					1410.3027	91.6440	10/12/05	525608
					1376.1447	81.4279	10/26/05	525880
					1403.9961	79.8325	11/07/05	526165
					1349.1479	87.7915	11/21/05	526419
					1353.7149	97.4231	12/07/05	526739
					1432.5147	95.9786	12/19/05	526975
				PB-212				
					1.7177	2.3421	02/02/05	520724
					5.8768	2.2123	02/16/05	520939
					1.6579	1.4660	03/16/05	521463
					2.7341	1.7932	06/08/05	523129
					1.4212	1.9019	10/12/05	525608

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Table 4
RADIOACTIVITY IN MILK
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3116	MULLINS FARM	3.7 M. ESE						
			GAMMA SCAN (GELI)					
				PB-212	2.3460	1.7332	10/26/05	525880
					4.6152	2.6317	12/19/05	526975
				PB-214	.9905	2.8175	01/05/05	520197
					7.7469	2.8225	01/19/05	520412
					1.9785	2.5562	07/20/05	524008
					2.0187	2.3303	10/12/05	525608
					8.3818	2.3629	10/26/05	525880
					5.4744	2.6240	11/21/05	526419
					17.4090	3.2810	12/07/05	526739
					7.2042	2.7225	12/19/05	526975
				TL-208	.0189	1.1953	02/02/05	520724
					.4322	.7007	10/26/05	525880
					3.9386	1.3781	12/19/05	526975
			SR 89					
					- 1.6221	1.2903	03/02/05	521228
					- .2672	1.0622	05/25/05	522902
					- 2.0171	1.0959	08/17/05	524587
					.4660	.9969	10/26/05	525880
			SR 90					
					2.4558	.8571	03/02/05	521228
					1.5416	.6621	05/25/05	522902
					1.9951	.7325	08/17/05	524587
					1.0014	.6220	10/26/05	525880

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Table 4
RADIOACTIVITY IN MILK
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3119	NORTON FARM	4.1 MILES ESE						
			IODINE-131					
					.0081	.0519	01/05/05	520198
					.0621	.0648	01/19/05	520414
					.0293	.0394	02/02/05	520725
					.0439	.0622	02/16/05	520940
					.0068	.0434	03/02/05	521229
					.0836	.0787	03/15/05	521464
					.0001	.0603	03/30/05	521784
					.0109	.0407	04/13/05	522001
					.0887	.1070	04/26/05	522366
					.0351	.0497	05/11/05	522599
					.0211	.0496	05/25/05	522903
					.0333	.0471	06/08/05	523130
					.0139	.0438	06/21/05	523417
					.0317	.1052	07/05/05	523684
					.0074	.0476	07/19/05	524010
					.0158	.0501	08/02/05	524307
					.0914	.0953	08/17/05	524589
					.0114	.0359	08/31/05	524840
					.0108	.0402	09/14/05	525108
					.0001	.0680	09/28/05	525355
					.0515	.0537	10/12/05	525609
					.0001	.0622	10/26/05	525881
					.0543	.0566	11/07/05	526166
					.0524	.0547	11/21/05	526420
					.0070	.0449	12/07/05	526740
					.0080	.0511	12/19/05	526976

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Table 4
RADIOACTIVITY IN MILK
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3119	NORTON FARM	4.1 MILES ESE						
			GAMMA SCAN (GELI)					
				AC-228				
					6.7639	5.4062	06/08/05	523130
					5.7013	5.3912	07/19/05	524010
				BI-214				
					12.4353	3.9469	01/19/05	520414
					12.6648	4.4669	02/02/05	520725
					7.9169	3.5570	04/26/05	522366
					1.3195	2.2542	07/19/05	524010
					6.1889	4.1714	08/31/05	524840
					7.8236	4.6991	10/26/05	525881
					12.6502	3.3190	11/21/05	526420
					10.4563	3.9143	12/07/05	526740
					22.2955	4.8569	12/19/05	526976
				K-40				
					1283.2649	99.0918	01/05/05	520198
					1232.6479	88.4754	01/19/05	520414
					1240.2022	95.9129	02/02/05	520725
					1301.6176	92.5027	02/16/05	520940
					1564.9903	106.4569	03/02/05	521229
					1237.4953	109.3170	03/15/05	521464
					1098.6204	87.6093	03/30/05	521784
					1174.0616	100.3146	04/13/05	522001
					1050.8860	66.3173	04/26/05	522366
					1229.8131	98.0805	05/11/05	522599
					1360.2243	96.0039	05/25/05	522903
					1281.6236	103.0348	06/08/05	523130
					1210.1593	92.6500	06/21/05	523417

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Table 4
RADIOACTIVITY IN MILK
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3119	NORTON FARM	4.1 MILES ESE						
			GAMMA SCAN (GELI)					
				K-40				
					1080.8338	272.3179	07/05/05	523684
					1413.9914	90.9924	07/19/05	524010
					1260.8219	78.3566	08/02/05	524307
					1096.1125	97.8360	08/17/05	524589
					1274.4245	99.1931	08/31/05	524840
					1276.7289	98.4227	09/14/05	525108
					1184.1341	102.9014	09/28/05	525355
					1358.2345	112.5167	10/12/05	525609
					1412.3142	98.6786	10/26/05	525881
					1310.8955	93.0816	11/07/05	526166
					1371.5845	107.0867	11/21/05	526420
					1360.7113	85.8612	12/07/05	526740
					1257.5584	79.9351	12/19/05	526976
				PB-212				
					1.2898	2.0628	01/05/05	520198
					1.1159	2.3840	03/02/05	521229
					2.2014	1.9035	04/26/05	522366
					5.1288	3.0767	05/11/05	522599
					3.0267	2.4922	06/08/05	523130
					1.8666	2.1935	07/19/05	524010
					.9864	2.4402	11/21/05	526420
				PB-214				
					7.0951	2.4966	01/19/05	520414
					3.8131	5.6996	02/02/05	520725
					.4006	2.6993	04/26/05	522366
					5.1683	2.3806	11/07/05	526166

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Table 4
RADIOACTIVITY IN MILK
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3119	NORTON FARM	4.1 MILES ESE						
			GAMMA SCAN (GELI)					
				PB-214				
					6.5975	3.7962	11/21/05	526420
					2.3334	2.9596	12/07/05	526740
					17.7419	3.8315	12/19/05	526976
				TL-208				
					1.3812	1.5150	01/05/05	520198
					3.5352	1.8969	03/02/05	521229
			SR 89					
					.4575	.8318	03/02/05	521229
					2.4427	.8920	05/25/05	522903
					.3388	.6629	08/31/05	524840
					.1393	.8983	10/26/05	525881
			SR 90					
					.2599	.5403	03/02/05	521229
					.1445	.5333	05/25/05	522903
					.7048	.4154	08/31/05	524840
					.7716	.5604	10/26/05	525881

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Table 5
RADIOACTIVITY IN SOIL
WATTS BAR NUCLEAR PLANT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3101	LM1	0.5 MILES SSW						
			GAMMA SCAN (GELI)					
				AC-228	1.2868	.0712	06/28/05	523549
				BI-212	1.1596	.1197	06/28/05	523549
				BI-214	.9073	.0463	06/28/05	523549
				CS-137	.0846	.0090	06/28/05	523549
				K-40	13.2479	.7498	06/28/05	523549
				PA-234M	3.2464	1.2148	06/28/05	523549
				PB-212	1.0930	.0586	06/28/05	523549
				PB-214	.9416	.0443	06/28/05	523549
				RA-224	1.4765	.1846	06/28/05	523549
				RA-226	.9073	.0463	06/28/05	523549
				TL-208	.3876	.0239	06/28/05	523549
			SR 89					
					.2072	.5641	06/28/05	523549
			SR 90					
					.0139	.1240	06/28/05	523549

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Table 5
 RADIOACTIVITY IN SOIL
 WATTS BAR NUCLEAR PLANT
 PCI/GM - 0.037 BQ/G (DRY WEIGHT)
 12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	RM-2 DAYTON TN	15.0 MILES SW						
			GAMMA SCAN (GELI)					
				AC-228	.7465	.0506	06/28/05	523523
				BI-212	.7509	.0793	06/28/05	523523
				BI-214	.8712	.0461	06/28/05	523523
				CS-137	.1199	.0140	06/28/05	523523
				K-40	4.8740	.2916	06/28/05	523523
				PA-234M	1.7464	.5095	06/28/05	523523
				PB-212	.7965	.0399	06/28/05	523523
				PB-214	.9256	.0427	06/28/05	523523
				RA-224	.7865	.1044	06/28/05	523523
				RA-226	.8712	.0461	06/28/05	523523
				TL-208	.2514	.0170	06/28/05	523523
			SR 89					
					.5141	.5566	06/28/05	523523
			SR 90					
					.1243	.1281	06/28/05	523523

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Table 5
RADIOACTIVITY IN SOIL
WATTS BAR NUCLEAR PLANT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3102	LM2	0.4 MILES NNE						
			GAMMA SCAN (GELI)					
				AC-228	1.2831	.0815	06/28/05	523554
				BI-212	1.3194	.1506	06/28/05	523554
				BI-214	.9755	.0583	06/28/05	523554
				CS-137	.2284	.0203	06/28/05	523554
				K-40	16.1486	.7121	06/28/05	523554
				PB-212	1.1934	.0663	06/28/05	523554
				PB-214	1.0343	.0527	06/28/05	523554
				RA-226	.9755	.0583	06/28/05	523554
				TL-208	.3954	.0189	06/28/05	523554
			SR 89					
					.5295	.5972	06/28/05	523554
			SR 90					
					.1664	.1364	06/28/05	523554
3106	PM2 SPRING CITY	7.0 MILES NW						
			GAMMA SCAN (GELI)					
				AC-228	1.1918	.0983	06/28/05	523557
				BI-212				

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Table 5
RADIOACTIVITY IN SOIL
WATTS BAR NUCLEAR PLANT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3106	PM2 SPRING CITY	7.0 MILES NW						
			GAMMA SCAN (GELI)					
				BI-212	1.1065	.1174	06/28/05	523557
				BI-214	.6836	.0371	06/28/05	523557
				CS-137	.6280	.0361	06/28/05	523557
				K-40	15.6742	.7653	06/28/05	523557
				PA-234M	2.5875	.7830	06/28/05	523557
				PB-212	1.1694	.0578	06/28/05	523557
				PB-214	.7548	.0421	06/28/05	523557
				RA-224	1.2655	.1738	06/28/05	523557
				RA-226	.6836	.0371	06/28/05	523557
				TL-208	.3395	.0221	06/28/05	523557
			SR 89		.3395	.5962	06/28/05	523557
			SR 90		.0394	.1330	06/28/05	523557
3107	PM3	10.4 MILES NNE						
			GAMMA SCAN (GELI)					
				AC-228				

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Table 5
RADIOACTIVITY IN SOIL
WATTS BAR NUCLEAR PLANT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3107	PM3	10.4 MILES NNE						
			GAMMA SCAN (GELI)					
				AC-228	.9051	.0652	06/28/05	523560
				BI-212	.9529	.1266	06/28/05	523560
				BI-214	.9082	.0498	06/28/05	523560
				CS-137	.2117	.0159	06/28/05	523560
				K-40	3.8052	.2690	06/28/05	523560
				PB-212	.8582	.0433	06/28/05	523560
				PB-214	.9826	.0509	06/28/05	523560
				RA-224	.9556	.1444	06/28/05	523560
				RA-226	.9082	.0498	06/28/05	523560
				TL-208	.3007	.0228	06/28/05	523560
			SR 89		.3370	.6015	06/28/05	523560
			SR 90		.0103	.1331	06/28/05	523560
3108	PM4	7.6 MILES NE/ENE						
			GAMMA SCAN (GELI)					
				AC-228				

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Table 5

RADIOACTIVITY IN SOIL
WATTS BAR NUCLEAR PLANT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3108	PM4	7.6 MILES NE/ENE	GAMMA SCAN (GELI)					
				AC-228	1.0343	.0694	06/28/05	523563
				BI-212	1.0830	.0852	06/28/05	523563
				BI-214	.8378	.0460	06/28/05	523563
				CS-137	.0804	.0127	06/28/05	523563
				K-40	3.7115	.2519	06/28/05	523563
				PB-212	.9172	.0578	06/28/05	523563
				PB-214	.9165	.0476	06/28/05	523563
				RA-226	.8378	.0460	06/28/05	523563
				TL-208	.2988	.0189	06/28/05	523563
			SR 89		.1133	.5950	06/28/05	523563
			SR 90		.0035	.1319	06/28/05	523563
3109	PM5 DECATUR	8.0 MILES S	GAMMA SCAN (GELI)					
				AC-228	1.4453	.0853	06/29/05	523566
				BI-212				

Tennessee Valley Authority

Table 5
RADIOACTIVITY IN SOIL
WATTS BAR NUCLEAR PLANT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3106	PM2 SPRING CITY	7.0 MILES NW						
			GAMMA SCAN (GELI)					
				BI-212	1.1065	.1174	06/28/05	523557
				BI-214	.6836	.0371	06/28/05	523557
				CS-137	.6280	.0361	06/28/05	523557
				K-40	15.6742	.7653	06/28/05	523557
				PA-234M	2.5875	.7830	06/28/05	523557
				PB-212	1.1694	.0578	06/28/05	523557
				PB-214	.7548	.0421	06/28/05	523557
				RA-224	1.2655	.1738	06/28/05	523557
				RA-226	.6836	.0371	06/28/05	523557
				TL-208	.3395	.0221	06/28/05	523557
			SR 89		.3395	.5962	06/28/05	523557
			SR 90		.0394	.1330	06/28/05	523557

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Table 5

RADIOACTIVITY IN SOIL

WATTS BAR NUCLEAR PLANT

PCI/GM - 0.037 BQ/G (DRY WEIGHT)

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3203	LM3	1.9 MILES NNE						
			GAMMA SCAN (GELI)					
				AC-228	1.1079	.0643	06/28/05	523569
				BI-212	1.1838	.1393	06/28/05	523569
				BI-214	.9404	.0514	06/28/05	523569
				CS-137	.1076	.0117	06/28/05	523569
				K-40	5.0724	.3203	06/28/05	523569
				PA-234M	3.5176	.7161	06/28/05	523569
				PB-212	1.1214	.0600	06/28/05	523569
				PB-214	1.0431	.0515	06/28/05	523569
				RA-224	1.2986	.1818	06/28/05	523569
				RA-226	.9404	.0514	06/28/05	523569
				TL-208	.3630	.0186	06/28/05	523569
			SR 89		.3184	.6006	06/28/05	523569
			SR 90		.0896	.1252	06/28/05	523569

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Table 5

RADIOACTIVITY IN SOIL

WATTS BAR NUCLEAR PLANT

PCI/GM - 0.037 BQ/G (DRY WEIGHT)

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3204	LM-4 WB	0.9 MILES SE						
			GAMMA SCAN (GELI)					
				AC-228	1.2872	.0865	06/28/05	523572
				BI-212	1.7073	.1623	06/28/05	523572
				BI-214	.7981	.0519	06/28/05	523572
				CS-137	.0365	.0108	06/28/05	523572
				K-40	26.6258	1.3071	06/28/05	523572
				PB-212	1.2304	.0649	06/28/05	523572
				PB-214	.8656	.0491	06/28/05	523572
				RA-226	.7981	.0519	06/28/05	523572
				TL-208	.4089	.0249	06/28/05	523572
			SR 89		.2461	.6358	06/28/05	523572
			SR 90		.0004	.1298	06/28/05	523572
3205	RM-3 WB	15 MILES NNW						
			GAMMA SCAN (GELI)					
				AC-228	.6164	.0445	06/28/05	523575
				BI-212				

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Table 5

RADIOACTIVITY IN SOIL
WATTS BAR NUCLEAR PLANT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3205	RM-3 WB	15 MILES NNW						
			GAMMA SCAN (GELI)					
				BI-212	.6217	.1058	06/28/05	523575
				BI-214	.6144	.0367	06/28/05	523575
				CS-137	.5621	.0332	06/28/05	523575
				K-40	4.7541	.3148	06/28/05	523575
				PB-212	.6622	.0308	06/28/05	523575
				PB-214	.6654	.0356	06/28/05	523575
				RA-224	.6093	.0729	06/28/05	523575
				RA-226	.6144	.0367	06/28/05	523575
				TL-208	.2083	.0158	06/28/05	523575
			SR 89					
					.0061	.7303	06/28/05	523575
			SR 90					
					.3123	.1561	06/28/05	523575

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Table 6
RADIOACTIVITY IN APPLES
WATTS BAR NUCLEAR PLANT
PCI/KG - 0.037 BQ/KG (WET WT)
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	DAYTON TN	15.0 MILES SW	GAMMA SCAN (GELI)	BI-214	15.4545	6.2850	08/02/05	522294
				K-40	1067.4111	123.4300	08/02/05	522294
				PB-212	3.7903	5.7589	08/02/05	522294
				PB-214	32.2563	8.1621	08/02/05	522294
				TL-208	5.8240	3.4843	08/02/05	522294
3119	NORTON FARM	4.1 MILES ESE	GAMMA SCAN (GELI)	BI-214	32.0743	12.7844	08/03/05	522345
-116-				K-40	1373.2878	137.7688	08/03/05	522345
				PB-214	21.8727	7.1808	08/03/05	522345

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Table 7
 RADIOACTIVITY IN CABBAGE
 WATTS BAR NUCLEAR PLANT
 PCI/KG - 0.037 BQ/KG (WET WT)
 12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	DAYTON TN	15.0 MILES SW	GAMMA SCAN (GELI)	BI-214	29.7450	11.4830	08/02/05	522288
				K-40	1893.2166	191.5052	08/02/05	522288
				PB-214	20.2794	5.4563	08/02/05	522288
3116	MULLINS FARM	3.7 M. ESE	GAMMA SCAN (GELI)	BI-214	17.2868	14.0006	06/22/05	522339
				K-40	1622.5013	164.2751	06/22/05	522339
				PB-214	18.6993	11.5588	06/22/05	522339

Tennessee Valley Authority

Table 8
RADIOACTIVITY IN CORN
WATTS BAR NUCLEAR PLANT
PCI/KG - 0.037 BQ/KG (WET WT)
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	DAYTON TN	15.0 MILES SW	GAMMA SCAN (GELI)	BI-214	21.0049	5.7289	08/02/05	522291
				K-40	2124.7936	146.7432	08/02/05	522291
				PB-214	18.7368	5.0105	08/02/05	522291
3119	NORTON FARM	4.1 MILES ESE	GAMMA SCAN (GELI)	AC-228	33.2280	11.9414	08/03/05	522340
				BI-214	17.7511	6.4964	08/03/05	522340
				K-40	1572.1390	138.1089	08/03/05	522340
				PB-214	21.4850	7.8388	08/03/05	522340

Tennessee Valley Authority

Table 9

RADIOACTIVITY IN GREEN BEANS

WATTS BAR NUCLEAR PLANT

PCI/KG - 0.037 BQ/KG (WET WT)

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	DAYTON TN	15.0 MILES SW	GAMMA SCAN (GELI)	K-40	2810.0265	227.9021	08/02/05	522292
				PB-214	9.1928	8.5353	08/02/05	522292
3116	MULLINS FARM	3.7 M. ESE	GAMMA SCAN (GELI)	BI-214	8.7254	14.9476	08/17/05	522341
				K-40	3736.3483	279.1217	08/17/05	522341

Tennessee Valley Authority

Table 10

RADIOACTIVITY IN TOMATOES

WATTS BAR NUCLEAR PLANT

PCI/KG - 0.037 BQ/KG (WET WT)

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	DAYTON TN	15.0 MILES SW	GAMMA SCAN (GELI)					
				AC-228	18.4693	11.8083	08/02/05	522293
				BI-214	12.2604	6.4159	08/02/05	522293
				K-40	1781.0843	145.0391	08/02/05	522293
				PB-214	12.3573	8.3504	08/02/05	522293
3119	NORTON FARM	4.1 MILES ESE	GAMMA SCAN (GELI)					
				K-40	2209.0580	166.8663	08/03/05	522343
				PB-214	15.2187	8.6839	08/03/05	522343

Tennessee Valley Authority

Table 11
 RADIOACTIVITY IN CONTIN. SURFACE WATER(Total)
 WATTS BAR NUCLEAR PLANT
 PCI/L - 0.037 BQ/L
 12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3133	TRM 529.3							
		GROSS BETA						
					2.5928	.6780	01/04/05	520199
					1.7841	.6331	02/01/05	520727
					2.2656	.6643	03/01/05	521230
					1.4509	.6213	03/29/05	521785
					1.5707	.6266	04/26/05	522368
					2.4969	.6798	05/24/05	522904
					2.4043	.6771	06/21/05	523418
					2.2223	.7019	07/19/05	524011
					2.3240	.6766	08/16/05	524590
					2.0734	.7006	09/13/05	525109
					4.1015	.7554	10/11/05	525610
					2.5139	.6834	11/07/05	526167
					2.2660	.6568	12/06/05	526741
		GAMMA SCAN (GELI)						
		AC-228						
					6.2323	2.7727	04/26/05	522368
					18.3424	5.6030	07/19/05	524011
					4.2231	4.0498	09/13/05	525109
					5.4894	4.1164	10/11/05	525610
					.2348	4.1955	11/07/05	526167
					2.2141	3.9627	12/06/05	526741
		BE-7						
					13.4660	6.8397	07/19/05	524011
		BI-214						
					2.7700	2.9882	01/04/05	520199
					3.0174	3.2459	06/21/05	523418

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Table 11
 RADIOACTIVITY IN CONTIN. SURFACE WATER(Total)
 WATTS BAR NUCLEAR PLANT
 PCI/L - 0.037 BQ/L
 12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3133	TRM 529.3							
				GAMMA SCAN (GELI)				
				BI-214	4.1054	3.8569	07/19/05	524011
					13.2537	3.3965	08/16/05	524590
					10.5922	11.2502	10/11/05	525610
					19.2660	4.4030	11/07/05	526167
					26.7746	5.8449	12/06/05	526741
				K-40	8.4175	19.9528	01/04/05	520199
					16.8808	14.9580	03/29/05	521785
					13.8383	24.2323	06/21/05	523418
					16.5731	22.6666	07/19/05	524011
					12.7706	21.7855	09/13/05	525109
					9.1205	21.5845	11/07/05	526167
					28.6059	22.3308	12/06/05	526741
				NO ACTIVITY DETECTED	.0000	.0000	02/01/05	520727
					.0000	.0000	03/01/05	521230
					.0000	.0000	05/24/05	522904
				PB-212	1.2168	1.4583	06/21/05	523418
					1.7465	2.1571	07/19/05	524011
				PB-214	3.1944	4.1624	01/04/05	520199
					8.8924	3.4487	06/21/05	523418
					3.1711	2.4214	07/19/05	524011
					4.6411	3.5560	08/16/05	524590
					1.8534	2.6456	10/11/05	525610

Tennessee Valley Authority

Table 11
RADIOACTIVITY IN CONTIN. SURFACE WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3133	TRM 529.3							
				GAMMA SCAN (GELI)				
				PB-214				
					10.6267	3.7256	11/07/05	526167
					18.0153	3.3660	12/06/05	526741
				TL-208				
					1.0075	1.4325	01/04/05	520199
					.1453	1.3988	10/11/05	525610
					.5945	1.4098	11/07/05	526167
					2.7212	1.8269	12/06/05	526741
				TRITIUM				
					- 8.1553	66.0823	01/04/05	520199
					418.7420	75.0221	02/01/05	520727
					74.3898	66.0035	03/01/05	521230
					197.5186	67.8859	03/29/05	521785
					173.9839	68.4183	04/26/05	522368
					90.2145	67.8261	05/24/05	522904
					19.5936	58.4569	06/21/05	523418
					87.1204	70.3953	07/19/05	524011
					- 21.7558	67.4821	08/16/05	524590
					148.1375	70.3301	09/13/05	525109
					- 46.3439	65.9061	10/11/05	525610
					32.1810	68.9188	11/07/05	526167
					102.3791	67.1256	12/06/05	526741
				GROSS BETA				
					3.8572	.7425	01/04/05	520201
					1.9023	.6356	02/02/05	520729
3134	TRM 517.9							

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Table 11
RADIOACTIVITY IN CONTIN. SURFACE WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3134	TRM 517.9							
		GROSS BETA						
					2.8335	.7066	03/01/05	521232
					2.8179	.7088	03/29/05	521787
					1.8842	.6522	04/26/05	522370
					2.5636	.7343	05/24/05	522906
					2.3825	.6832	06/21/05	523420
					3.2278	.7904	07/19/05	524013
					2.4872	.6966	08/16/05	524592
					2.1998	.7099	09/13/05	525111
					2.6519	.6801	10/11/05	525612
					1.0121	.6133	11/07/05	526169
					3.1077	.7049	12/06/05	526743
		GAMMA SCAN (GELI)						
		AC-228						
					5.1099	4.7591	06/21/05	523420
		BI-214						
					3.7052	3.1620	02/02/05	520729
					2.7482	1.9533	03/01/05	521232
					3.2993	2.6158	04/26/05	522370
					3.1867	2.6192	05/24/05	522906
					.6936	9.6759	06/21/05	523420
					7.9612	3.1800	08/16/05	524592
					4.7216	2.7772	10/11/05	525612
					5.4189	3.2360	11/07/05	526169
					35.1111	4.2360	12/06/05	526743
		K-40						
					10.3923	15.2573	06/21/05	523420

Tennessee Valley Authority

Table 11
 RADIOACTIVITY IN CONTIN. SURFACE WATER(Total)
 WATTS BAR NUCLEAR PLANT
 PCI/L - 0.037 BQ/L
 12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3134	TRM 517.9							
		GAMMA SCAN (GELI)						
		K-40			20.7316	16.0725	08/16/05	524592
					8.5705	14.0940	10/11/05	525612
					8.5758	19.2589	11/07/05	526169
					82.5572	21.6328	12/06/05	526743
		NO ACTIVITY DETECTED			.0000	.0000	01/04/05	520201
					.0000	.0000	03/29/05	521787
					.0000	.0000	07/19/05	524013
					.0000	.0000	09/13/05	525111
		PB-212			1.6204	1.5543	04/26/05	522370
					2.5276	2.3386	12/06/05	526743
		PB-214			1.1938	2.1523	03/01/05	521232
					1.0711	2.3964	05/24/05	522906
					.8290	3.2659	10/11/05	525612
					4.0169	2.2814	11/07/05	526169
					25.4479	4.0356	12/06/05	526743
		TL-208			2.2566	1.0017	12/06/05	526743
		TRITIUM			147.1065	70.3165	01/04/05	520201
					192.1185	69.3700	02/02/05	520729
					221.5983	72.3849	03/01/05	521232
					156.1324	71.1583	03/29/05	521787
					204.0685	70.0521	04/26/05	522370

Tennessee Valley Authority

Table 11
 RADIOACTIVITY IN CONTIN. SURFACE WATER(Total)
 WATTS BAR NUCLEAR PLANT
 PCI/L - 0.037 BQ/L
 12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3134	TRM 517.9							
		TRITIUM						
					203.2278	70.7808	05/24/05	522906
					- 82.8122	56.8698	06/21/05	523420
					21.5295	68.7629	07/19/05	524013
					- 26.6412	66.7293	08/16/05	524592
					- 17.8387	67.8673	09/13/05	525111
					19.4347	66.6970	10/11/05	525612
					69.3294	69.5731	11/07/05	526169
					195.7526	67.0577	12/06/05	526743
3135	TRM 523.1							
		GROSS BETA						
					1.6749	.6331	01/04/05	520202
					2.2405	.6523	02/01/05	520730
					2.5190	.6778	03/01/05	521233
					1.5459	.6209	03/29/05	521788
					1.0794	.6041	04/26/05	522371
					2.1730	.6624	05/24/05	522907
					3.5798	.7394	06/21/05	523421
					1.5622	.6576	07/19/05	524014
					3.6966	.7519	08/16/05	524593
					8.5118	1.0726	09/13/05	525112
					9.4463	1.0923	10/11/05	525613
					2.9051	.7249	11/07/05	526170
					2.3509	.6688	12/06/05	526744
		GAMMA SCAN (GELI)						
		AC-228						
					4.6892	4.0740	02/01/05	520730

Tennessee Valley Authority

Table 11
 RADIOACTIVITY IN CONTIN. SURFACE WATER(Total)
 WATTS BAR NUCLEAR PLANT
 PCI/L - 0.037 BQ/L
 12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3135	TRM 523.1							
				GAMMA SCAN (GELI)				
				BI-214				
					8.7069	12.5527	01/04/05	520202
					4.3870	7.7133	02/01/05	520730
					.5982	2.8256	03/29/05	521788
					1.4726	2.5861	05/24/05	522907
					2.9058	2.5908	06/21/05	523421
					14.1135	4.1767	08/16/05	524593
					10.0869	3.3253	10/11/05	525613
					12.6089	4.2034	12/06/05	526744
				K-40				
					14.9593	14.3532	01/04/05	520202
					23.8545	16.6449	02/01/05	520730
					8.8821	16.0108	09/13/05	525112
					17.9111	19.7173	10/11/05	525613
				NO ACTIVITY DETECTED				
					.0000	.0000	03/01/05	521233
					.0000	.0000	04/26/05	522371
					.0000	.0000	11/07/05	526170
				PB-212				
					.7495	1.1719	03/29/05	521788
					1.6096	1.9250	05/24/05	522907
					3.6343	1.9708	12/06/05	526744
				PB-214				
					9.8324	3.9899	08/16/05	524593
					8.2689	2.3171	10/11/05	525613
					7.6854	3.5305	12/06/05	526744
				TL-208				
					2.8397	1.4932	07/19/05	524014

Tennessee Valley Authority

Table 11
 RADIOACTIVITY IN CONTIN. SURFACE WATER(Total)
 WATTS BAR NUCLEAR PLANT
 PCI/L - 0.037 BQ/L
 12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3135	TRM 523.1							
				TRITIUM				
					91.4932	68.3836	01/04/05	520202
					146.3974	68.5360	02/01/05	520730
					182.2814	71.3194	03/01/05	521233
					193.9663	70.6431	03/29/05	521788
					210.8908	69.1272	04/26/05	522371
					145.7248	69.7264	05/24/05	522907
					3.2415	57.9871	06/21/05	523421
				-	73.8153	67.6603	07/19/05	524014
				-	25.1187	66.7467	08/16/05	524593
					30.2481	68.4859	09/13/05	525112
					86.9163	69.1993	10/11/05	525613
				-	26.9624	67.5338	11/07/05	526170
					129.6806	67.5855	12/06/05	526744

Tennessee Valley Authority

Table 12
 RADIOACTIVITY IN CONTINUOUS PUBLIC WATER
 WATTS BAR NUCLEAR PLANT
 PCI/L - 0.037 BQ/L
 12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	DAYTON TN	TRM 503.8						
			GROSS BETA					
					1.4991	.6202	01/18/05	520369
					1.2586	.6048	02/15/05	520895
					1.7712	.6357	03/15/05	521418
					1.7827	.6398	04/12/05	521956
					1.7045	.6246	05/10/05	522555
					2.8147	.6999	06/07/05	523084
					2.2845	.6667	07/05/05	523639
					.5952	.5868	08/02/05	524261
					1.9960	.6605	08/30/05	524794
					1.5455	.6240	09/27/05	525310
					2.5024	.6743	10/25/05	525827
					3.2072	.7333	11/21/05	526374
					1.7350	.6371	12/19/05	526929
			GAMMA SCAN (GELI)					
				AC-228				
					5.1338	4.4459	06/07/05	523084
				BI-214				
					17.3550	2.6663	01/18/05	520369
					1.7137	3.0886	02/15/05	520895
					7.4670	5.5465	03/15/05	521418
					7.4580	3.3131	04/12/05	521956
					.9621	2.7373	05/10/05	522555
					3.7264	3.3897	06/07/05	523084
					1.1243	2.9876	08/02/05	524261
					5.6051	3.2716	08/30/05	524794
					10.1871	3.5258	09/27/05	525310

Tennessee Valley Authority

Table 12
 RADIOACTIVITY IN CONTINUOUS PUBLIC WATER
 WATTS BAR NUCLEAR PLANT
 PCI/L - 0.037 BQ/L
 12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	DAYTON TN	TRM 503.8						
			GAMMA SCAN (GELI)					
				BI-214				
					3.0136	2.8578	10/25/05	525827
					1.3059	3.8972	11/21/05	526374
					4.2362	3.8697	12/19/05	526929
				K-40				
					.8913	27.3019	05/10/05	522555
					5.9435	14.6318	07/05/05	523639
					3.3085	18.6351	12/19/05	526929
				PB-212				
					2.3398	2.0895	04/12/05	521956
					.0460	2.1494	06/07/05	523084
					1.1286	2.1543	08/02/05	524261
					.3901	2.3682	11/21/05	526374
				PB-214				
					15.5358	2.5915	01/18/05	520369
					4.6077	2.2695	04/12/05	521956
					2.7220	3.1427	05/10/05	522555
					1.9338	2.8574	06/07/05	523084
					.5140	2.7285	08/30/05	524794
					10.1328	3.3405	09/27/05	525310
					1.2607	4.1362	11/21/05	526374
				TL-208				
					.1346	.9814	04/12/05	521956
					.5182	1.2645	06/07/05	523084
					.2235	1.2348	08/02/05	524261
			TRITIUM					
					201.4925	70.0164	01/18/05	520369

Tennessee Valley Authority

Table 12

RADIOACTIVITY IN CONTINUOUS PUBLIC WATER WATTS BAR NUCLEAR PLANT PCI/L - 0.037 BQ/L 12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2116	DAYTON TN	TRM 503.8						
			TRITIUM					
					66.9555	67.0894	02/15/05	520895
					258.9614	71.1226	03/15/05	521418
					222.9284	71.4781	03/15/05	521507
					227.9841	71.8170	04/12/05	521956
					123.3063	69.0859	05/10/05	522555
					136.7372	69.6088	06/07/05	523084
					176.2927	69.2454	06/07/05	523173
					80.2812	57.1041	07/05/05	523639
					36.0942	69.5766	08/02/05	524261
					64.4570	69.7696	08/30/05	524794
					50.2569	69.7916	08/31/05	524883
					11.9166	68.9873	09/27/05	525310
					57.8435	69.6712	10/25/05	525827
					64.4643	69.3549	11/21/05	526374
					176.9300	66.5679	12/19/05	526929
					37.4319	66.5077	12/19/05	527019
2140	CF INDUSTRIES	TRM 473.0						
			GROSS BETA					
					2.5355	.6711	01/20/05	520371
					1.6505	.6209	02/15/05	520897
					1.5517	.6265	03/14/05	521420
					2.1418	.6505	04/13/05	521958
					1.7031	.6260	05/11/05	522557
					1.9082	.6525	06/08/05	523086
					2.0413	.6561	07/06/05	523641

Tennessee Valley Authority

Table 12
RADIOACTIVITY IN CONTINUOUS PUBLIC WATER
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2140	CF INDUSTRIES	TRM 473.0						
			GROSS BETA					
					2.0167	.6554	08/03/05	524263
					2.6571	.6805	08/30/05	524796
					3.2346	.7169	09/26/05	525312
					3.2877	.7138	10/25/05	525829
					2.7942	.7085	11/22/05	526376
					1.7361	.6365	12/19/05	526931
			GAMMA SCAN (GELI)					
			AC-228					
					5.2219	3.0609	05/11/05	522557
					5.0495	3.7933	08/30/05	524796
					3.0021	3.6797	10/25/05	525829
					7.5992	3.3293	12/19/05	526931
			BI-214					
					12.5144	3.8004	01/20/05	520371
					.3658	2.0515	02/15/05	520897
					8.8644	3.2480	04/13/05	521958
					5.7437	3.8085	06/08/05	523086
					.8312	2.1340	07/06/05	523641
					3.8151	2.1756	08/03/05	524263
					4.4191	2.8343	08/30/05	524796
					4.7328	3.3331	09/26/05	525312
					5.4207	3.3278	10/25/05	525829
					10.3754	3.1699	11/22/05	526376
					11.9433	2.9086	12/19/05	526931
			K-40					
					3.2874	18.4179	01/20/05	520371

Tennessee Valley Authority

Table 12
 RADIOACTIVITY IN CONTINUOUS PUBLIC WATER
 WATTS BAR NUCLEAR PLANT
 PCI/L - 0.037 BQ/L
 12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2140	CF INDUSTRIES	TRM 473.0						
			GAMMA SCAN (GELI)					
				K-40	2.1017	15.8340	06/08/05	523086
					7.6318	17.5971	08/03/05	524263
					8.9579	9.3083	11/22/05	526376
					45.1732	20.4474	12/19/05	526931
			NO ACTIVITY DETECTED		.0000	.0000	03/14/05	521420
			PB-212		.0010	2.2588	04/13/05	521958
					1.0142	1.7178	07/06/05	523641
					.6297	1.6165	08/03/05	524263
					2.0308	2.0070	12/19/05	526931
			PB-214		7.9579	3.4732	01/20/05	520371
					1.5059	2.8134	02/15/05	520897
					2.0514	3.9921	06/08/05	523086
					2.7990	3.1790	07/06/05	523641
					3.5675	2.6563	08/03/05	524263
					2.3528	3.0158	08/30/05	524796
					2.1622	2.5775	10/25/05	525829
					.7711	3.4785	11/22/05	526376
					7.1501	3.1954	12/19/05	526931
			TL-208		.4000	1.2291	04/13/05	521958
					3.0625	1.1322	12/19/05	526931
			TRITIUM		162.6373	68.6803	01/20/05	520371

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Table 12
RADIOACTIVITY IN CONTINUOUS PUBLIC WATER
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2140	CF INDUSTRIES	TRM 473.0						
			TRITIUM					
					155.2173	68.5538	02/15/05	520897
					253.8295	70.2106	03/14/05	521420
					158.4477	69.7103	03/14/05	521508
					218.3774	72.8448	04/13/05	521958
					221.0315	75.1046	05/11/05	522557
					277.4288	71.6746	06/08/05	523086
					180.5940	72.6943	06/08/05	523174
					- 26.1138	57.6915	07/06/05	523641
					- 53.6997	67.7088	08/03/05	524263
					91.2887	69.9198	08/30/05	524796
					98.2007	70.2683	08/30/05	524884
					105.0773	70.4074	09/26/05	525312
					166.1358	72.8384	10/25/05	525829
					72.2489	68.7079	11/22/05	526376
					210.8473	67.2319	12/19/05	526931
					59.9186	67.0115	12/19/05	527020
3133	TRM 529.3							
			GROSS BETA					
					2.5928	.6780	01/04/05	520199
					1.7841	.6331	02/01/05	520727
					2.2656	.6643	03/01/05	521230
					1.4509	.6213	03/29/05	521785
					1.5707	.6266	04/26/05	522368
					2.4969	.6798	05/24/05	522904
					2.4043	.6771	06/21/05	523418

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Table 12

RADIOACTIVITY IN CONTINUOUS PUBLIC WATER

WATTS BAR NUCLEAR PLANT

PCI/L - 0.037 BQ/L

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3133	TRM 529.3							
		GROSS BETA						
					2.2223	.7019	07/19/05	524011
					2.3240	.6766	08/16/05	524590
					2.0734	.7006	09/13/05	525109
					4.1015	.7554	10/11/05	525610
					2.5139	.6834	11/07/05	526167
					2.2660	.6568	12/06/05	526741
		GAMMA SCAN (GELI)						
		AC-228						
					6.2323	2.7727	04/26/05	522368
					18.3424	5.6030	07/19/05	524011
					4.2231	4.0498	09/13/05	525109
					5.4894	4.1164	10/11/05	525610
					.2348	4.1955	11/07/05	526167
					2.2141	3.9627	12/06/05	526741
		BE-7						
					13.4660	6.8397	07/19/05	524011
		BI-214						
					2.7700	2.9882	01/04/05	520199
					3.0174	3.2459	06/21/05	523418
					4.1054	3.8569	07/19/05	524011
					13.2537	3.3965	08/16/05	524590
					10.5922	11.2502	10/11/05	525610
					19.2660	4.4030	11/07/05	526167
					26.7746	5.8449	12/06/05	526741
		K-40						
					8.4175	19.9528	01/04/05	520199
					16.8808	14.9580	03/29/05	521785

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Table 12
RADIOACTIVITY IN CONTINUOUS PUBLIC WATER
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3133	TRM 529.3							
		GAMMA SCAN (GELI)						
		K-40						
					13.8383	24.2323	06/21/05	523418
					16.5731	22.6666	07/19/05	524011
					12.7706	21.7855	09/13/05	525109
					9.1205	21.5845	11/07/05	526167
					28.6059	22.3308	12/06/05	526741
		NO ACTIVITY DETECTED						
					.0000	.0000	02/01/05	520727
					.0000	.0000	03/01/05	521230
					.0000	.0000	05/24/05	522904
		PB-212						
					1.2168	1.4583	06/21/05	523418
					1.7465	2.1571	07/19/05	524011
		PB-214						
					3.1944	4.1624	01/04/05	520199
					8.8924	3.4487	06/21/05	523418
					3.1711	2.4214	07/19/05	524011
					4.6411	3.5560	08/16/05	524590
					1.8534	2.6456	10/11/05	525610
					10.6267	3.7256	11/07/05	526167
					18.0153	3.3660	12/06/05	526741
		TL-208						
					1.0075	1.4325	01/04/05	520199
					.1453	1.3988	10/11/05	525610
					.5945	1.4098	11/07/05	526167
					2.7212	1.8269	12/06/05	526741

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Table 12
RADIOACTIVITY IN CONTINUOUS PUBLIC WATER
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3133	TRM 529.3							
				TRITIUM				
					- 8.1553	66.0823	01/04/05	520199
					418.7420	75.0221	02/01/05	520727
					74.3898	66.0035	03/01/05	521230
					197.5186	67.8859	03/29/05	521785
					173.9839	68.4183	04/26/05	522368
					90.2145	67.8261	05/24/05	522904
					19.5936	58.4569	06/21/05	523418
					87.1204	70.3953	07/19/05	524011
					- 21.7558	67.4821	08/16/05	524590
					148.1375	70.3301	09/13/05	525109
					- 46.3439	65.9061	10/11/05	525610
					32.1810	68.9188	11/07/05	526167
					102.3791	67.1256	12/06/05	526741

Tennessee Valley Authority

Table 13

RADIOACTIVITY IN CONTIN. WELL WATER(Total)

WATTS BAR NUCLEAR PLANT

PCI/L - 0.037 BQ/L

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3121	WBN WELL #1	0.6 MILES S						
			GROSS BETA					
					2.7692	.7491	12/28/04	520097
					1.3874	.6799	01/25/05	520588
					2.5227	.7476	02/22/05	521085
					3.1604	.7851	03/22/05	521663
					1.3322	.6845	04/19/05	522146
					4.3610	.8400	05/18/05	522765
					3.0511	.7687	06/14/05	523284
					2.3958	.8094	07/12/05	523853
					2.5587	.7819	08/09/05	524472
					1.9587	.7415	09/06/05	525000
					3.3271	.8132	11/01/05	526056
					2.5865	.8072	11/29/05	526603
					2.8770	.8594	12/27/05	527153
			GAMMA SCAN (GELI)					
			AC-228					
					6.7802	3.5075	12/28/04	520097
					10.0639	3.9086	12/27/05	527153
				BI-214				
					15.4955	3.6398	12/28/04	520097
					15.1704	8.6813	01/25/05	520588
					8.9364	2.9638	03/22/05	521663
					7.7773	2.9983	04/19/05	522146
					17.1859	5.6081	05/18/05	522765
					5.9578	3.1802	07/12/05	523853
					4.0714	3.1537	08/09/05	524472
					6.1319	3.2502	09/06/05	525000

Tennessee Valley Authority

Table 13
RADIOACTIVITY IN CONTIN. WELL WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2004 - 12/30/2005

Station	Location	Description	Analysis	Nuclide	Activity	Error	Date Collected	Lab Number
3121	WBN WELL #1	0.6 MILES S						
			GAMMA SCAN (GELI)					
				BI-214	7.3022	3.8873	11/01/05	526056
					23.1609	4.5213	11/29/05	526603
					13.8640	4.9034	12/27/05	527153
				K-40				
					16.3513	16.3594	01/25/05	520588
					28.3647	17.5746	03/22/05	521663
					34.3606	23.1602	04/19/05	522146
					33.2523	18.8878	06/14/05	523284
				PB-212				
					.2775	1.8617	04/19/05	522146
					2.4722	1.8432	08/09/05	524472
					2.1282	1.8538	09/06/05	525000
					.5229	3.8079	11/29/05	526603
				PB-214				
					9.6328	2.8565	12/28/04	520097
					7.1072	2.2707	01/25/05	520588
					3.9210	4.2349	02/22/05	521085
					7.9343	2.4535	03/22/05	521663
					2.6992	3.1413	04/19/05	522146
					10.3499	3.4885	05/18/05	522765
					2.1620	3.1811	07/12/05	523853
					2.7576	3.8353	08/09/05	524472
					5.6375	2.6228	09/06/05	525000
					7.1224	2.6153	11/01/05	526056
					25.2163	4.4108	11/29/05	526603
					12.8774	4.3870	12/27/05	527153

Tennessee Valley Authority

Table 13

RADIOACTIVITY IN CONTIN. WELL WATER(Total)

WATTS BAR NUCLEAR PLANT

PCI/L - 0.037 BQ/L

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3121	WBN WELL #1	0.6 MILES S						
			GAMMA SCAN (GELI)					
				TL-208				
					1.5572	1.1953	04/19/05	522146
					.2820	1.0177	08/09/05	524472
					.4091	1.1124	09/06/05	525000
			TRITIUM					
					348.6029	73.1608	12/28/04	520097
					158.0719	69.2648	01/25/05	520588
					167.1492	67.9535	02/22/05	521085
					209.7296	69.8184	03/22/05	521663
					385.3414	74.3314	04/19/05	522146
					193.3556	70.6402	05/18/05	522765
					102.8477	68.6756	06/14/05	523284
					207.7534	71.3551	07/12/05	523853
					266.4884	73.4700	08/09/05	524472
					195.5388	71.5302	09/06/05	525000
					200.6539	71.3183	11/01/05	526056
					248.3558	70.7861	11/29/05	526603
					280.4582	72.2671	12/27/05	527153
3125	WBN WELL #5	ONSITE N						
			GROSS BETA					
					1.7696	.6351	12/28/04	520098
					1.2170	.6016	01/25/05	520589
					1.6722	.6300	02/22/05	521086
					2.9370	.6969	03/22/05	521664
					1.4075	.6211	04/19/05	522147
					2.5609	.6884	05/17/05	522766

Tennessee Valley Authority

Table 13

RADIOACTIVITY IN CONTIN. WELL WATER(Total)

WATTS BAR NUCLEAR PLANT

PCI/L - 0.037 BQ/L

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3125	WBN WELL #5	ONSITE N						
			GROSS BETA					
					3.0302	.7111	06/14/05	523285
					1.6426	.6915	07/12/05	523854
					1.6331	.6418	08/09/05	524473
					2.0204	.6695	09/06/05	525001
					1.7692	.6465	10/04/05	525507
					3.2402	.7197	11/01/05	526057
					2.4725	.6759	11/29/05	526604
					1.6945	.6409	12/27/05	527154
			GAMMA SCAN (GELI)					
			AC-228					
					2.5331	3.3280	02/22/05	521086
					7.1455	3.9970	07/12/05	523854
					3.8280	3.7356	08/09/05	524473
					3.6469	3.3530	09/06/05	525001
					2.3764	2.7641	11/01/05	526057
					3.9489	4.2610	11/29/05	526604
			BI-214					
					1.3834	2.3539	12/28/04	520098
					.4071	2.5191	01/25/05	520589
					6.4286	3.2622	02/22/05	521086
					7.8048	2.5482	03/22/05	521664
					6.2421	3.7418	04/19/05	522147
					6.4985	5.3211	05/17/05	522766
					2.2469	2.5343	06/14/05	523285
					.0012	2.2323	07/12/05	523854
					4.4063	3.3277	08/09/05	524473

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Table 13

RADIOACTIVITY IN CONTIN. WELL WATER(Total)

WATTS BAR NUCLEAR PLANT

PCI/L - 0.037 BQ/L

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3125	WBN WELL #5	ONSITE N						
			GAMMA SCAN (GELI)					
				BI-214	8.5895	3.2874	09/06/05	525001
					7.7574	3.6454	10/04/05	525507
					6.7047	3.2552	11/01/05	526057
					2.6130	2.5610	11/29/05	526604
					17.4978	4.0210	12/27/05	527154
				K-40	43.2698	17.1930	01/25/05	520589
					13.5910	14.1012	02/22/05	521086
					7.0191	13.4542	03/22/05	521664
					4.2231	9.3937	06/14/05	523285
					1.6647	17.1898	10/04/05	525507
					19.0497	16.5226	11/01/05	526057
					15.0107	23.1799	12/27/05	527154
				PB-212	2.0145	1.8865	03/22/05	521664
					4.1420	2.8131	12/27/05	527154
				PB-214	.0304	2.6121	12/28/04	520098
					1.4742	3.1635	01/25/05	520589
					7.8866	3.3736	02/22/05	521086
					6.1421	3.2238	04/19/05	522147
					4.5912	3.7268	09/06/05	525001
					9.3596	3.2161	10/04/05	525507
					6.5133	3.2427	11/01/05	526057
					7.0421	4.0214	11/29/05	526604
					22.6337	4.1761	12/27/05	527154

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Table 13
RADIOACTIVITY IN CONTIN. WELL WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3125	WBN WELL #5	ONSITE N						
				GAMMA SCAN (GELI)				
				TL-208				
					.2309	.9281	12/27/05	527154
				TRITIUM				
					86.5273	68.1948	12/28/04	520098
					3.7647	66.6350	01/25/05	520589
					162.5605	67.2843	02/22/05	521086
					77.8776	67.5101	03/22/05	521664
					58.0716	66.8694	04/19/05	522147
					88.8977	68.1257	05/17/05	522766
					124.3469	69.1520	06/14/05	523285
					148.8369	66.4655	07/12/05	523854
					14.5617	68.4482	08/09/05	524473
					10.6625	66.9001	09/06/05	525001
					106.2568	68.0425	10/04/05	525507
					47.3652	66.2434	11/01/05	526057
					97.0423	67.3811	11/29/05	526604
					99.2151	68.8110	12/27/05	527154
3263	WBN MW-A	0.58 MILES SSE		GROSS BETA				
					.2240	.6524	12/28/04	520108
					1.9684	.7452	01/25/05	520599
					1.3799	.7106	02/22/05	521096
					1.1173	.6997	03/22/05	521674
					1.3460	.7253	04/19/05	522157
					.0359	.6537	05/17/05	522776
					.3605	.6809	06/14/05	523295

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Table 13
RADIOACTIVITY IN CONTIN. WELL WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3263	WBN MW-A	0.58 MILES SSE						
			GROSS BETA					
					.3497	.7541	07/12/05	523864
					1.0188	.7166	08/09/05	524483
					2.0697	.7785	09/06/05	525011
					2.6189	.7937	10/04/05	525517
					1.4750	.7331	11/01/05	526067
					2.5874	.7944	11/29/05	526614
					4.1503	.8337	12/27/05	527164
			GAMMA SCAN (GELI)					
				AC-228				
					6.7538	5.2546	02/22/05	521096
				BI-214				
					5.4244	3.9289	12/28/04	520108
					12.3449	2.8980	01/25/05	520599
					53.7558	6.5462	02/22/05	521096
					9.4515	4.8834	03/22/05	521674
					18.9035	3.6228	04/19/05	522157
					12.2066	3.3690	05/17/05	522776
					4.7502	2.5964	06/14/05	523295
					15.5470	5.2167	07/12/05	523864
					23.6077	5.0861	09/06/05	525011
					1.8580	3.4359	10/04/05	525517
					20.0296	3.7895	11/01/05	526067
					19.7061	4.4368	11/29/05	526614
					30.6520	4.6358	12/27/05	527164
				K-40				
					15.7884	15.8854	12/28/04	520108

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 Table 13
 RADIOACTIVITY IN CONTIN. WELL WATER(Total)
 WATTS BAR NUCLEAR PLANT
 PCI/L - 0.037 BQ/L
 12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3263	WBN MW-A	0.58 MILES SSE						
			GAMMA SCAN (GELI)					
				PB-214	30.9200	4.6440	12/27/05	527164
				TL-208	3.9080	1.8013	12/27/05	527164
			TRITIUM					
					98.6416	68.6262	12/28/04	520108
					115.7669	69.2757	01/25/05	520599
					100.4585	67.0982	02/22/05	521096
					118.5396	68.2617	03/22/05	521674
					176.2592	69.9148	04/19/05	522157
					159.8630	74.0732	05/17/05	522776
					113.1762	68.2333	06/14/05	523295
					66.0650	65.0634	07/12/05	523864
					81.1810	68.3405	08/09/05	524483
					44.9751	68.8210	09/06/05	525011
					144.9063	69.5260	10/04/05	525517
					55.9199	66.9771	11/01/05	526067
					5.4600	66.7199	11/29/05	526614
					153.1188	69.7329	12/27/05	527164
3264	WBN MW-B	0.45 MILES SSE						
			GROSS BETA					
					6.6646	1.0550	12/28/04	520109
					11.7615	1.3282	01/25/05	520600
					7.6364	1.1083	02/22/05	521097
					4.5888	.9307	03/22/05	521675
					11.9226	1.3277	04/19/05	522158

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Table 13
RADIOACTIVITY IN CONTIN. WELL WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3263	WBN MW-A	0.58 MILES SSE						
			GAMMA SCAN (GELI)					
				K-40				
					5.2944	27.9489	02/22/05	521096
					14.5543	20.1679	07/12/05	523864
					7.9405	10.9116	09/06/05	525011
					64.3788	22.5212	11/29/05	526614
					74.0083	21.5205	12/27/05	527164
			NO ACTIVITY DETECTED					
					.0000	.0000	08/09/05	524483
			PB-212					
					2.0426	2.6676	12/28/04	520108
					1.7351	1.6321	02/22/05	521096
					.7550	2.2579	06/14/05	523295
					1.0799	1.8104	11/01/05	526067
					4.6404	2.1699	11/29/05	526614
					5.2284	1.8832	12/27/05	527164
			PB-214					
					10.2824	2.3884	01/25/05	520599
					44.7461	4.7506	02/22/05	521096
					8.6880	3.6542	03/22/05	521674
					19.0176	3.1662	04/19/05	522157
					8.8092	2.6357	05/17/05	522776
					5.5151	2.4535	06/14/05	523295
					12.0647	2.8902	07/12/05	523864
					15.0687	3.9835	09/06/05	525011
					6.4297	2.8740	10/04/05	525517
					23.8593	4.9483	11/01/05	526067
					19.3860	3.3008	11/29/05	526614

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Table 13

RADIOACTIVITY IN CONTIN. WELL WATER(Total)

WATTS BAR NUCLEAR PLANT

PCI/L - 0.037 BQ/L

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3264	WBN MW-B	0.45 MILES SSE)						
			GROSS BETA					
					8.4583	1.1613	05/17/05	522777
					5.4000	.9710	06/14/05	523296
					6.6061	1.1703	07/12/05	523865
					7.9775	1.1645	08/09/05	524484
					3.0495	.8855	09/06/05	525012
					3.6926	.8897	10/04/05	525518
					2.8984	.8452	11/01/05	526068
					7.8341	1.0385	11/29/05	526615
					4.2528	.9073	12/27/05	527165
			GAMMA SCAN (GELI)					
			AC-228					
					8.1961	4.6989	08/09/05	524484
					5.7432	2.5355	09/06/05	525012
			BI-214					
					10.8123	3.6962	12/28/04	520109
					1.0121	2.5218	01/25/05	520600
					2.8569	2.8421	02/22/05	521097
					10.5762	3.3698	04/19/05	522158
					8.4983	3.0868	05/17/05	522777
					4.3551	4.3845	06/14/05	523296
					10.0588	3.1846	07/12/05	523865
					8.6791	2.3081	08/09/05	524484
					.2749	1.8133	09/06/05	525012
					4.1539	2.4904	10/04/05	525518
					16.0431	4.4412	11/01/05	526068
					3.7857	3.4502	11/29/05	526615

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Table 13
RADIOACTIVITY IN CONTIN. WELL WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3264	WBN MW-B	0.45 MILES SSE						
			GAMMA SCAN (GELI)					
				K-40				
					5.5017	14.3402	06/14/05	523296
					7.5411	8.5493	09/06/05	525012
					12.3963	16.4810	10/04/05	525518
					3.6610	16.4114	11/01/05	526068
					24.6151	15.7172	11/29/05	526615
				NO ACTIVITY DETECTED				
					.0000	.0000	03/22/05	521675
				PB-212				
					.3081	1.7670	08/09/05	524484
				PB-214				
					3.6855	3.2270	12/28/04	520109
					13.6773	3.6709	04/19/05	522158
					4.1734	2.8039	05/17/05	522777
					6.8401	2.8298	07/12/05	523865
					2.1620	2.1656	08/09/05	524484
					1.7242	2.4734	10/04/05	525518
					1.7069	4.6622	11/01/05	526068
					2.6684	4.0686	11/29/05	526615
					4.6441	3.4645	12/27/05	527165
				TL-208				
					1.5283	.9849	07/12/05	523865
			TRITIUM					
					7170.8632	381.2878	12/28/04	520109
					6151.9525	330.9384	01/25/05	520600
					6585.0744	352.3297	02/22/05	521097
					15970.0453	819.4272	03/22/05	521675

Tennessee Valley Authority

Table 13

RADIOACTIVITY IN CONTIN. WELL WATER(Total)

WATTS BAR NUCLEAR PLANT

PCI/L - 0.037 BQ/L

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3264	WBN MW-B	0.45 MILES SSE	TRITIUM					
					90025.2022	4529.4850	04/19/05	522158
					100224.1093	5040.6745	05/17/05	522777
					50891.0985	2568.6999	06/14/05	523296
					28242.3266	1433.8155	07/12/05	523865
					22705.5668	1157.0788	08/09/05	524484
					22962.0082	1169.7422	09/06/05	525012
					18095.0303	925.8448	10/04/05	525518
					15175.6035	779.9441	11/01/05	526068
					16792.4372	861.1600	11/29/05	526615
					17585.7223	901.3516	12/27/05	527165
3265	WBN MW-C	0.25 MILES ESE)	GROSS BETA					
					6.3351	.9452	12/28/04	520110
					5.6571	.8885	01/25/05	520601
					5.5525	.9089	02/22/05	521098
					2.3134	.7017	03/21/05	521676
					5.6657	.8747	04/19/05	522159
					4.4819	.8336	05/17/05	522778
					4.1655	.8024	06/14/05	523297
					1.7905	.7305	07/12/05	523866
					4.7543	.8254	08/09/05	524485
					6.5219	.9776	09/06/05	525013
					5.1944	.8792	10/04/05	525519
					3.0112	.7559	11/01/05	526069
					4.4727	.8318	11/29/05	526616

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Table 13

RADIOACTIVITY IN CONTIN. WELL WATER(Total)

WATTS BAR NUCLEAR PLANT

PCI/L - 0.037 BQ/L

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3265	WBN MW-C	0.25 MILES ESE						
			GROSS BETA					
					4.0308	.8012	12/27/05	527166
			GAMMA SCAN (GELI)					
			BI-214		5.0693	2.4968	01/25/05	520601
					12.5395	2.6405	02/22/05	521098
					5.8333	3.8129	03/21/05	521676
					5.5846	5.2427	04/19/05	522159
					4.1263	2.4361	05/17/05	522778
					1.7678	2.2104	06/14/05	523297
					3.1437	2.6880	07/12/05	523866
					11.4643	3.6427	09/06/05	525013
					4.8078	3.1473	10/04/05	525519
					1.9394	3.2211	11/01/05	526069
					6.5129	3.1398	11/29/05	526616
					20.2682	5.0370	12/27/05	527166
			K-40		10.7956	11.4802	02/22/05	521098
					27.1040	21.1878	05/17/05	522778
					6.2238	12.8934	06/14/05	523297
					37.1541	16.9496	09/06/05	525013
			NO ACTIVITY DETECTED		.0000	.0000	12/28/04	520110
					.0000	.0000	08/09/05	524485
			PB-212		1.7000	1.9165	01/25/05	520601
					1.3321	1.7795	10/04/05	525519
			PB-214					

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Table 13
RADIOACTIVITY IN CONTIN. WELL WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3265	WBN MW-C	0.25 MILES ESE						
			GAMMA SCAN (GELI)					
				PB-214				
					.1259	2.7300	01/25/05	520601
					7.2753	3.2397	02/22/05	521098
					1.9865	2.7894	03/21/05	521676
					.8012	4.4386	04/19/05	522159
					8.8789	3.5231	05/17/05	522778
					2.9808	2.3808	07/12/05	523866
					5.1763	2.4171	09/06/05	525013
					.0481	1.9743	10/04/05	525519
					2.5017	3.3103	11/29/05	526616
					9.8289	3.5067	12/27/05	527166
				TL-208				
					1.7008	1.4052	05/17/05	522778
			TRITIUM					
					1063.9527	95.2389	12/28/04	520110
					3678.1503	210.8674	01/25/05	520601
					3064.1561	181.4765	02/22/05	521098
					2233.9538	143.6448	03/21/05	521676
					4084.9119	230.6848	04/19/05	522159
					4701.5588	260.7443	05/17/05	522778
					9113.6729	478.1315	06/14/05	523297
					16530.1181	847.6663	07/12/05	523866
					14589.1111	751.2115	08/09/05	524485
					14671.3625	755.1674	09/06/05	525013
					16605.4428	851.4396	10/04/05	525519
					15483.8898	795.4133	11/01/05	526069

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Table 13
RADIOACTIVITY IN CONTIN. WELL WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3265	WBN MW-C	0.25 MILES ESE						
			TRITIUM					
					15614.8130	802.2963	11/29/05	526616
					13372.6046	690.8806	12/27/05	527166
3266	WBN MW-D	0.40 MILES SSE						
			GROSS BETA					
					4.5867	.9603	12/28/04	520111
					5.1101	.9496	01/25/05	520602
					3.5867	.8496	02/22/05	521099
					3.0070	.8100	03/22/05	521677
					3.2409	.8173	04/19/05	522160
					2.4666	.7815	05/17/05	522779
					2.7221	.7971	06/14/05	523298
					2.6835	.8861	07/12/05	523867
					2.2775	.7722	08/09/05	524486
					2.7734	.8386	09/06/05	525014
					2.7105	.8046	10/04/05	525520
					3.3613	.8122	11/01/05	526070
					2.9665	.7879	11/29/05	526617
			GAMMA SCAN (GELI)					
			AC-228					
					13.2516	4.6796	11/29/05	526617
			BI-214					
					4.9410	2.3462	01/25/05	520602
					6.3810	3.6297	04/19/05	522160
					1.7398	2.6253	05/17/05	522779
					1.0408	2.2003	08/09/05	524486
					6.1017	3.0522	09/06/05	525014

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Table 13

RADIOACTIVITY IN CONTIN. WELL WATER(Total)

WATTS BAR NUCLEAR PLANT

PCI/L - 0.037 BQ/L

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3266	WBN MW-D	0.40 MILES SSE						
			GAMMA SCAN (GELI)					
				BI-214	8.1613	4.2035	10/04/05	525520
					7.3162	3.0663	11/01/05	526070
				K-40				
					24.0669	16.1893	12/28/04	520111
					12.4399	13.9973	04/19/05	522160
					33.5900	17.6609	05/17/05	522779
					11.1648	16.6630	07/12/05	523867
					1.3768	19.7850	11/29/05	526617
			NO ACTIVITY DETECTED					
					.0000	.0000	02/22/05	521099
					.0000	.0000	06/14/05	523298
				PB-212				
					4.7738	2.1926	09/06/05	525014
					.1233	2.1531	10/04/05	525520
					1.4809	1.8699	11/01/05	526070
				PB-214				
					5.0023	2.8644	01/25/05	520602
					2.8149	2.4984	04/19/05	522160
					2.0481	1.9280	08/09/05	524486
					.8341	2.6060	09/06/05	525014
					1.4557	3.3347	10/04/05	525520
					2.3993	2.9733	11/01/05	526070
				TL-208				
					.2456	.6890	03/22/05	521677
					.8633	.8366	07/12/05	523867
					.1258	.7363	09/06/05	525014

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Table 13

RADIOACTIVITY IN CONTIN. WELL WATER(Total)

WATTS BAR NUCLEAR PLANT

PCI/L - 0.037 BQ/L

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3266	WBN MW-D	0.40 MILES SSE						
			TRITIUM					
					7549.8985	400.2136	12/28/04	520111
					555376.6957	27851.2155	01/25/05	520602
					560708.0791	28119.4057	02/22/05	521099
					76804.3753	3866.4784	03/22/05	521677
					17129.4819	877.6253	04/19/05	522160
					13035.4911	673.2022	05/17/05	522779
					11006.3655	572.2826	06/14/05	523298
					9990.9789	521.3148	07/12/05	523867
					10295.9412	537.3084	08/09/05	524486
					11961.3621	619.9441	09/06/05	525014
					7288.3047	387.3081	10/04/05	525520
					4992.4176	274.5608	11/01/05	526070
					4685.7389	262.9195	11/29/05	526617

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Table 14

RADIOACTIVITY IN GRAB WELL WATER(Total)

WATTS BAR NUCLEAR PLANT

PCI/L - 0.037 BQ/L

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3115	LAYMAN FARM	1.3 MILES SSW						
			GROSS BETA					
					.1488	.5491	12/28/04	520096
					.2380	.5478	01/26/05	520586
					.8749	.5735	02/23/05	521084
					.2428	.5527	03/22/05	521662
					.3477	.5620	04/20/05	522144
					.4650	.5682	05/18/05	522764
					.7701	.5708	06/15/05	523283
					1.0489	.5916	07/12/05	523852
					1.0340	.5907	08/10/05	524471
					.4577	.5659	09/07/05	524999
					.9402	.5827	10/05/05	525505
					1.2645	.6084	11/02/05	526055
					1.5283	.6132	11/30/05	526602
					.6116	.5698	12/28/05	527152
			GAMMA SCAN (GELI)					
			BI-214					
					86.3084	6.0685	12/28/04	520096
					114.6185	10.4104	01/26/05	520586
					270.9015	15.1291	02/23/05	521084
					17.3311	3.9129	03/22/05	521662
					199.8650	12.0565	04/20/05	522144
					225.0428	13.1420	05/18/05	522764
					85.2925	10.1977	06/15/05	523283
					10.6587	3.8308	07/12/05	523852
					144.6159	10.9839	08/10/05	524471
					50.9265	7.0866	09/07/05	524999

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Table 14
RADIOACTIVITY IN GRAB WELL WATER(Total)
WATTS BAR NUCLEAR PLANT
PCI/L - 0.037 BQ/L
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3115	LAYMAN FARM	1.3 MILES SSW	GAMMA SCAN (GELI)					
				BI-214				
					134.5212	10.7271	10/05/05	525505
					227.2161	13.6859	11/02/05	526055
					110.8155	8.1638	11/30/05	526602
					314.3303	30.6795	12/28/05	527152
				K-40				
					.2492	16.6359	01/26/05	520586
					2.7393	33.8689	02/23/05	521084
					8.9217	15.5972	10/05/05	525505
				PB-212				
					5.0216	3.0804	06/15/05	523283
				PB-214				
					73.6894	6.9982	12/28/04	520096
					107.1270	7.4429	01/26/05	520586
					273.3464	15.7633	02/23/05	521084
					12.7225	3.1983	03/22/05	521662
					193.7470	11.2824	04/20/05	522144
					218.1344	13.1238	05/18/05	522764
					95.3733	8.3848	06/15/05	523283
					17.3478	4.3683	07/12/05	523852
					159.5371	9.6116	08/10/05	524471
					57.6312	6.4074	09/07/05	524999
					137.0139	9.6339	10/05/05	525505
					233.4430	14.5332	11/02/05	526055
					108.2298	7.7744	11/30/05	526602
					295.0127	25.4249	12/28/05	527152

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Table 14
 RADIOACTIVITY IN GRAB WELL WATER(Total)
 WATTS BAR NUCLEAR PLANT
 PCI/L - 0.037 BQ/L
 12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3115	LAYMAN FARM	1.3 MILES SSW						
			GAMMA SCAN (GELI)					
				TL-208				
					1.9511	1.3974	06/15/05	523283
			TRITIUM					
					12.6168	66.4116	12/28/04	520096
					81.2789	67.0883	01/26/05	520586
					132.9885	68.0802	02/23/05	521084
					125.6200	67.6776	03/22/05	521662
					116.1311	67.7739	04/20/05	522144
					132.5784	68.8297	05/18/05	522764
					113.6306	55.9143	06/15/05	523283
					16.6170	57.4188	07/12/05	523852
					94.2588	69.5831	08/10/05	524471
					41.8838	67.5848	09/07/05	524999
					45.3882	66.9865	10/05/05	525505
					121.8158	69.7043	11/02/05	526055
					85.5708	67.1896	11/30/05	526602
					149.9805	69.6707	12/28/05	527152

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Table 15
RADIOACTIVITY IN COMMERCIAL FISH
WATTS BAR NUCLEAR PLANT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2160	CHICKAMAUGA RES	TRM 471-530	GAMMA SCAN (GELI)	BI-214	.0380	.0169	11/17/05	525835
				CS-137	.0160	.0044	11/17/05	525835
				K-40	9.2194	.5097	06/08/05	522312
					10.9070	.6004	11/17/05	525835
				PB-214	.0590	.0266	11/17/05	525835
2161	WATTS BAR RES	TRM 530-602	GAMMA SCAN (GELI)	BI-214	.0341	.0117	06/07/05	522315
					.0434	.0108	10/11/05	525838
				CS-137	.0258	.0064	06/07/05	522315
					.1037	.0088	10/11/05	525838
				K-40	11.7606	.6603	06/07/05	522315
					8.6674	.4743	10/11/05	525838
				PB-212	.0133	.0071	10/11/05	525838
				PB-214	.0292	.0132	06/07/05	522315
					.0282	.0104	10/11/05	525838
3261	DOWNSTREAM STATION 1	DOWNSTREAM	GAMMA SCAN (GELI)	BI-214	.0384	.0116	06/07/05	522386

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Table 15

RADIOACTIVITY IN COMMERCIAL FISH

WATTS BAR NUCLEAR PLANT

PCI/GM - 0.037 BQ/G (DRY WEIGHT)

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3261	DOWNSTREAM STATION 1	DOWNSTREAM						
			GAMMA SCAN (GELI)					
				BI-214	.0239	.0128	11/18/05	525895
				CS-137	.0538	.0091	06/07/05	522386
				K-40	11.1688	.6759	06/07/05	522386
					10.5687	.5746	11/18/05	525895
				PB-212	.0006	.0080	06/07/05	522386
				PB-214	.0574	.0124	06/07/05	522386
					.0318	.0108	11/18/05	525895

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Table 16

RADIOACTIVITY IN GAME FISH
WATTS BAR NUCLEAR PLANT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2160	CHICKAMAUGA RES	TRM 471-530	GAMMA SCAN (GELI)					
				BI-214	.0103	.0101	06/08/05	522310
					.0703	.0130	11/17/05	525834
				CS-137	.0356	.0071	06/08/05	522310
					.0274	.0067	11/17/05	525834
				K-40	16.1645	.9043	06/08/05	522310
					15.6072	.8489	11/17/05	525834
				PB-212	.0083	.0093	06/08/05	522310
				PB-214	.0333	.0095	06/08/05	522310
					.0437	.0161	11/17/05	525834
2161	WATTS BAR RES	TRM 530-602	GAMMA SCAN (GELI)					
				BI-214	.0164	.0140	06/07/05	522314
					.0768	.0140	10/05/05	525837
				CS-137	.0757	.0102	06/07/05	522314
					.0594	.0089	10/05/05	525837
				K-40	14.3814	.9951	06/07/05	522314
					12.3082	.6764	10/05/05	525837
				PB-212	.0015	.0070	10/05/05	525837
				PB-214				

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Table 16
RADIOACTIVITY IN GAME FISH
WATTS BAR NUCLEAR PLANT
PCI/GM - 0.037 BQ/G (DRY WEIGHT)
12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
2161	WATTS BAR RES	TRM 530-602						
			GAMMA SCAN (GELI)					
				PB-214	.0109	.0122	06/07/05	522314
					.0695	.0129	10/05/05	525837
3261	DOWNSTREAM STATION 1	DOWNSTREAM						
			GAMMA SCAN (GELI)					
				BI-214	.0179	.0130	06/07/05	522385
					.0754	.0167	11/18/05	525894
				CS-137	.0464	.0069	06/07/05	522385
					.0335	.0096	11/18/05	525894
				K-40	11.9710	.5622	06/07/05	522385
					14.5289	.7086	11/18/05	525894
				PB-214	.0166	.0105	06/07/05	522385
					.0284	.0120	11/18/05	525894

Tennessee Valley Authority

Table 17

RADIOACTIVITY IN SHORELINE SEDIMENT

WATTS BAR NUCLEAR PLANT

PCI/GM - 0.037 BQ/G (DRY WEIGHT)

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3191	WATTS BAR RESORT	TRM 530						
			GAMMA SCAN (GELI)					
				AC-228	.1011	.0169	04/19/05	522373
					.0670	.0157	11/01/05	525882
				BE-7	.1951	.0388	04/19/05	522373
				BI-212	.1296	.0278	04/19/05	522373
				BI-214	.0926	.0108	04/19/05	522373
					.0859	.0104	11/01/05	525882
				K-40	.5082	.0789	04/19/05	522373
					.3006	.0405	11/01/05	525882
				PB-212	.0856	.0113	04/19/05	522373
					.0698	.0080	11/01/05	525882
				PB-214	.1027	.0108	04/19/05	522373
					.0793	.0111	11/01/05	525882
				RA-226	.0926	.0108	04/19/05	522373
					.0859	.0104	11/01/05	525882
				TL-208	.0253	.0041	04/19/05	522373
					.0263	.0041	11/01/05	525882

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Table 17

RADIOACTIVITY IN SHORELINE SEDIMENT

WATTS BAR NUCLEAR PLANT

PCI/GM - 0.037 BQ/G (DRY WEIGHT)

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3193	COTTON PORT MARINA	TRM 513						
			GAMMA SCAN (GELI)					
				AC-228	1.4963	.0804	04/20/05	522374
					1.4517	.0881	11/02/05	525883
				BE-7	.2330	.0559	04/20/05	522374
				BI-212	1.7133	.1740	04/20/05	522374
					1.5626	.1613	11/02/05	525883
				BI-214	.6096	.0318	04/20/05	522374
					.7442	.0440	11/02/05	525883
				CS-137	.0440	.0068	04/20/05	522374
					.0988	.0145	11/02/05	525883
				K-40	32.5557	1.3220	04/20/05	522374
					30.6769	1.4994	11/02/05	525883
				PB-212	1.4470	.0742	04/20/05	522374
					1.3955	.0574	11/02/05	525883
				PB-214	.6386	.0349	04/20/05	522374
					.8238	.0444	11/02/05	525883
				RA-224	1.6540	.1551	11/02/05	525883
				RA-226	.6096	.0318	04/20/05	522374
					.7442	.0440	11/02/05	525883

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Table 17
 RADIOACTIVITY IN SHORELINE SEDIMENT
 WATTS BAR NUCLEAR PLANT
 PCI/GM - 0.037 BQ/G (DRY WEIGHT)
 12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3193	COTTON PORT MARINA	TRM 513						
			GAMMA SCAN (GELI)					
				TL-208				
					.4953	.0284	04/20/05	522374
					.4522	.0268	11/02/05	525883

Tennessee Valley Authority

Table 18

RADIOACTIVITY IN POND SEDIMENT

WATTS BAR NUCLEAR PLANT

PCI/GM - 0.037 BQ/G (DRY WEIGHT)

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3303	LV-3	LOW VOL WASTE POND	GAMMA SCAN (GELI)	AC-228	1.0478	.0925	12/13/05	522388
				BI-212	1.1183	.1811	12/13/05	522388
				BI-214	.7417	.0595	12/13/05	522388
				CS-137	.1081	.0140	12/13/05	522388
				K-40	14.1113	.8823	12/13/05	522388
				PB-212	1.1319	.0732	12/13/05	522388
				PB-214	.8688	.0582	12/13/05	522388
				RA-224	.9143	.2384	12/13/05	522388
				TL-208	.3770	.0289	12/13/05	522388
3305	YP-5	YARD POND	GAMMA SCAN (GELI)	AC-228	1.0578	.0773	12/13/05	522389
				BE-7	.1846	.0424	12/13/05	522389
				BI-212	1.0812	.1174	12/13/05	522389
				BI-214	.7744	.0506	12/13/05	522389
				CO-60				

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Table 18

RADIOACTIVITY IN POND SEDIMENT

WATTS BAR NUCLEAR PLANT

PCI/GM - 0.037 BQ/G (DRY WEIGHT)

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3305	YP-5	YARD POND	GAMMA SCAN (GELI)	CO-60	.0432	.0115	12/13/05	522389
				CS-137	.1013	.0106	12/13/05	522389
				K-40	13.7416	.7616	12/13/05	522389
				PB-212	1.0291	.0568	12/13/05	522389
				PB-214	.8774	.0496	12/13/05	522389
				RA-224	.9384	.2143	12/13/05	522389
				TL-208	.3355	.0193	12/13/05	522389
3313	YP-13	YARD POND	GAMMA SCAN (GELI)	AC-228	1.1756	.0863	12/13/05	522390
				BE-7	.3915	.0702	12/13/05	522390
				BI-212	1.3694	.1420	12/13/05	522390
				BI-214	.8574	.0569	12/13/05	522390
				CO-60	.0589	.0074	12/13/05	522390
				CS-137	.1941	.0128	12/13/05	522390
				K-40				

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Table 18

RADIOACTIVITY IN POND SEDIMENT

WATTS BAR NUCLEAR PLANT

PCI/GM - 0.037 BQ/G (DRY WEIGHT)

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3313	YP-13	YARD POND	GAMMA SCAN (GELI)					
				K-40	15.8617	.7519	12/13/05	522390
				PB-212	1.2030	.0622	12/13/05	522390
				PB-214	.9378	.0506	12/13/05	522390
				TL-208	.4018	.0212	12/13/05	522390
3316	YP-16	YARD POND	GAMMA SCAN (GELI)					
				AC-228	.8984	.0575	12/13/05	522391
				BE-7	.4945	.0542	12/13/05	522391
				BI-212	.8399	.0915	12/13/05	522391
				BI-214	.7359	.0429	12/13/05	522391
				CO-58	.0252	.0045	12/13/05	522391
				CO-60	.0567	.0092	12/13/05	522391
				CS-137	.0564	.0079	12/13/05	522391
				K-40	11.1283	1.9607	12/13/05	522391
				PB-212	.8726	.0417	12/13/05	522391
				PB-214				

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Table 18

RADIOACTIVITY IN POND SEDIMENT

WATTS BAR NUCLEAR PLANT

PCI/GM - 0.037 BQ/G (DRY WEIGHT)

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3316	YP-16	YARD POND						
			GAMMA SCAN (GELI)					
				PB-214	.7155	.0327	12/13/05	522391
				RA-224	.8534	.1314	12/13/05	522391
				TL-208	.2794	.0179	12/13/05	522391
3317	YP-17	YARD POND						
			GAMMA SCAN (GELI)					
				AC-228	.8184	.0597	12/13/05	522392
				BE-7	.4384	.0647	12/13/05	522392
				BI-212	.9347	.1093	12/13/05	522392
				BI-214	.6562	.0385	12/13/05	522392
				CO-58	.0394	.0068	12/13/05	522392
				CO-60	.1572	.0143	12/13/05	522392
				CS-137	.0569	.0063	12/13/05	522392
				K-40	11.9234	.5938	12/13/05	522392
				PB-212	.9054	.0407	12/13/05	522392
				PB-214	.7249	.0409	12/13/05	522392
				RA-224				

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Table 18

RADIOACTIVITY IN POND SEDIMENT

WATTS BAR NUCLEAR PLANT

PCI/GM - 0.037 BQ/G (DRY WEIGHT)

12/27/2004 - 12/30/2005

<u>Station</u>	<u>Location</u>	<u>Description</u>	<u>Analysis</u>	<u>Nuclide</u>	<u>Activity</u>	<u>Error</u>	<u>Date Collected</u>	<u>Lab Number</u>
3317	YP-17	Y ^{ARD} POND						
			GAMMA SCAN (GELI)					
				RA-224	1.0554	.1184	12/13/05	522392
				SB-125	.2084	.0198	12/13/05	522392
				TL-208	.2662	.0154	12/13/05	522392